

=> fil reg
FILE 'REGISTRY' ENTERED AT 14:46:51 ON 25 SEP 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2006 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 24 SEP 2006 HIGHEST RN 908332-13-8
DICTIONARY FILE UPDATES: 24 SEP 2006 HIGHEST RN 908332-13-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

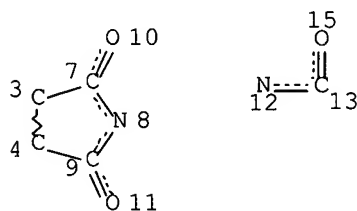
TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

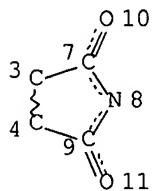
=> => d sta que 139
L11 STR



NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC 4
NUMBER OF NODES IS 10

STEREO ATTRIBUTES: NONE
L12 SCR 2043
L15 STR

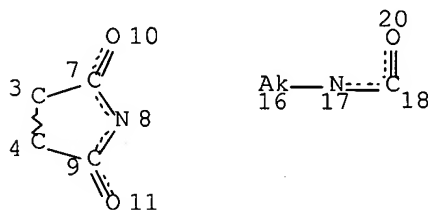


NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC 4
NUMBER OF NODES IS 7

STEREO ATTRIBUTES: NONE

L17 16423 SEA FILE=REGISTRY SSS FUL L15 AND L12
L19 1066 SEA FILE=REGISTRY SUB=L17 SSS FUL L11
L20 476 SEA FILE=REGISTRY ABB=ON PLU=ON L19 AND (C2H4O OR C3H6O OR
C4H8O OR C5H10O)
L21 114 SEA FILE=REGISTRY ABB=ON PLU=ON L20 AND S/ELS
L26 STR



NODE ATTRIBUTES:
CONNECT IS M3 RC AT 8
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED
ECOUNT IS M3 C AT 16

GRAPH ATTRIBUTES:
RSPEC 8
NUMBER OF NODES IS 11

STEREO ATTRIBUTES: NONE

L28 420 SEA FILE=REGISTRY SUB=L19 SSS FUL L26
L38 222 SEA FILE=REGISTRY ABB=ON PLU=ON L28 AND L20
L39 62 SEA FILE=REGISTRY ABB=ON PLU=ON L21 AND L38

=> d his

(FILE 'HOME' ENTERED AT 13:44:12 ON 25 SEP 2006)
SET COST OFF

FILE 'HCAPLUS' ENTERED AT 13:44:33 ON 25 SEP 2006

L1 2 S (US20060009590 OR US20040204548)/PN OR (US2005-091024# OR US2
E KOZLOWSKI/AU
L2 162 S E4-E7,E19,E21,E22
E GROSS/AU
L3 9 S E3
E GROSS R/AU
L4 481 S E3,E11
L5 5 S E51,E52
E MCMANUS/AU
E MCMANUS S/AU
L6 138 S E3,E5-E9
E MC MANUS/AU

E NEKTAR/PA,CS
L7 85 S E3-E34
L8 2 S L1 AND L2-L7
SEL RN

FILE 'REGISTRY' ENTERED AT 14:01:50 ON 25 SEP 2006

L9 55 S E1-E55
L10 29 S L9 AND NC4/ES
L11 STR
L12 SCR 2043
L13 50 S L11 AND L12 SAM
L14 STR L11
L15 STR L11
L16 50 S L15 AND L12
L17 16423 S L15 AND L12 FUL
SAV TEMP L17 RAB751/A
L18 50 S L11 SAM SUB=L17
L19 1066 S L11 FUL SUB=L17
SAV TEMP L19 RAB751A/A
L20 476 S L19 AND (C2H4O OR C3H6O OR C4H8O OR C5H10O)
L21 114 S L20 AND S/ELS
L22 STR L11
L23 4 S L22 SAM SUB=L19
L24 STR L22
L25 43 S L24 SAM SUB=L19
L26 STR L22
L27 23 S L26 SAM SUB=L19
L28 420 S L26 FUL SUB=L19
SAV L28 TEMP RAB751B/A
L29 STR L26
L30 4 S L29 SAM SUB=L28
L31 49 S L29 FUL SUB=L28
SAV TEMP L31 RAB751C/A
L32 31 S L22 FUL SUB=L19
SAV TEMP L32 RAB751D/A
L33 0 S L32 AND L31
L34 17 S L32 AND L28
L35 14 S L32 NOT L34
L36 3 S L35 AND 1/NC
L37 2 S L36 NOT 249621-30-5
L38 222 S L28 AND L20
L39 62 S L21 AND L38
L40 1 S L39 AND "(C2H4O)NC18H32N2O8S"/MF
L41 160 S L38 NOT L39
L42 20 S L10 AND L19
L43 4 S L42 AND L28
L44 1 S L42 AND L31
L45 0 S L42 AND L32
L46 19 S L42-L44 NOT L40
L47 1 S L46 AND "(C2H4O)NC16H26N2O7"/MF
L48 10 S L46 AND 46.150.1/RID
SEL RN 9 10
L49 8 S L48 NOT E56-E57
L50 10 S L40,L47,L49
L51 10 S L42 NOT L50
SAV TEMP L51 RAB751E/A

FILE 'HCAOLD' ENTERED AT 14:42:38 ON 25 SEP 2006

FILE 'HCAPLUS' ENTERED AT 14:42:41 ON 25 SEP 2006

FILE 'USPATFULL' ENTERED AT 14:46:12 ON 25 SEP 2006

FILE 'REGISTRY' ENTERED AT 14:46:51 ON 25 SEP 2006

FILE 'HCAOLD' ENTERED AT 14:47:31 ON 25 SEP 2006

L52 0 S L50

FILE 'HCAPLUS' ENTERED AT 14:47:31 ON 25 SEP 2006

L53 2 S L50

L54 2 S L53 AND L1-L8

FILE 'USPATFULL' ENTERED AT 14:48:04 ON 25 SEP 2006

L55 2 S L50

FILE 'REGISTRY' ENTERED AT 14:48:12 ON 25 SEP 2006

=> d ide can tot l50

L50 ANSWER 1 OF 10 REGISTRY COPYRIGHT 2006 ACS on STN

RN 724722-86-5 REGISTRY

ED Entered STN: 10 Aug 2004

CN Poly(oxy-1,2-ethanediyl), α -[3-[[[3-[[3-[(2-hydroxyethyl)thio]-2,5-dioxo-1-pyrrolidinyl)methyl]cyclohexyl)methyl]amino]-3-oxopropyl]- ω -methoxy- (9CI) (CA INDEX NAME)

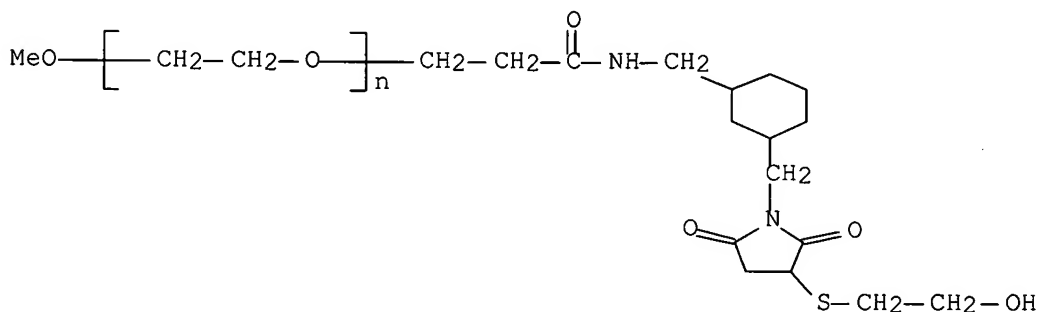
MF (C2 H4 O)_n C18 H30 N2 O5 S

CI PMS

PCT Polyether

SR CA

LC STN Files: CA, CAPLUS, USPATFULL



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 141:140951

L50 ANSWER 2 OF 10 REGISTRY COPYRIGHT 2006 ACS on STN

RN 724722-83-2 REGISTRY

ED Entered STN: 10 Aug 2004

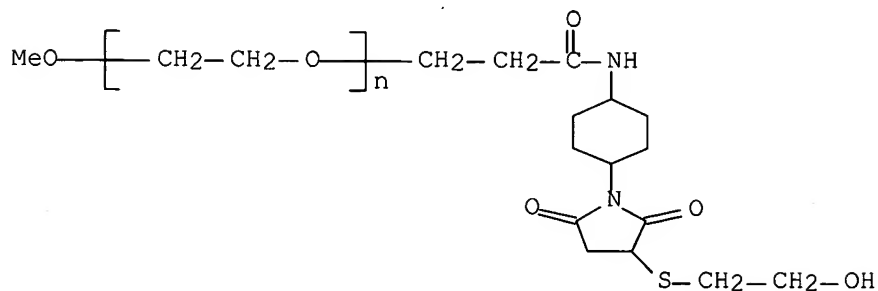
CN Poly(oxy-1,2-ethanediyl), α -[3-[[[(trans)-4-[3-[(2-hydroxyethyl)thio]-2,5-dioxo-1-pyrrolidinyl]cyclohexyl]amino]-3-oxopropyl]- ω -methoxy- (9CI) (CA INDEX NAME)

MF (C2 H4 O)_n C16 H26 N2 O5 S

CI PMS

PCT Polyether

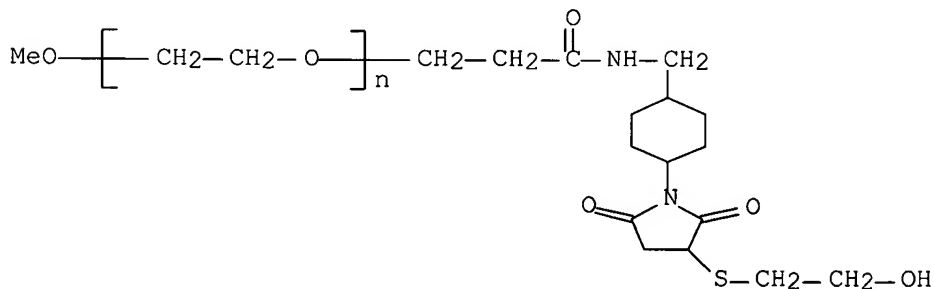
SR CA
 LC STN Files: CA, CAPLUS, USPATFULL



1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 141:140951

L50 ANSWER 3 OF 10 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 724722-80-9 REGISTRY
 ED Entered STN: 10 Aug 2004
 CN Poly(oxy-1,2-ethanediyl), α -[3-[[[(trans)-4-[3-[(2-hydroxyethyl)thio]-2,5-dioxo-1-pyrrolidinyl]cyclohexyl]methyl]amino]-3-oxopropyl]- ω -methoxy- (9CI) (CA INDEX NAME)
 MF (C2 H4 O)n C17 H28 N2 O5 S
 CI PMS
 PCT Polyether
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

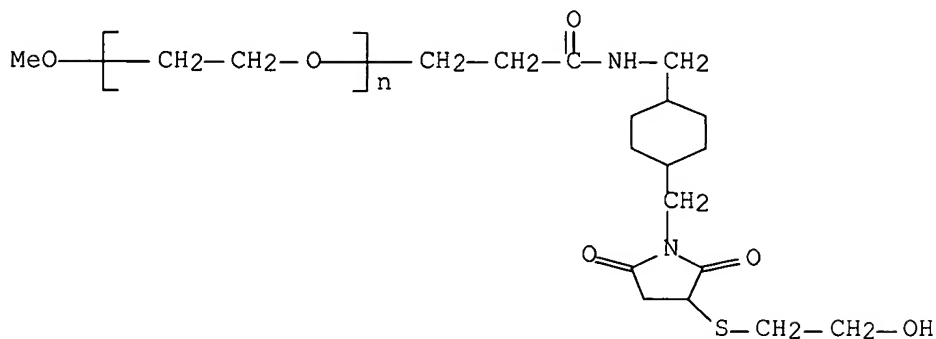


1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 141:140951

L50 ANSWER 4 OF 10 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 724722-77-4 REGISTRY
 ED Entered STN: 10 Aug 2004
 CN Poly(oxy-1,2-ethanediyl), α -[3-[[[4-[[3-[(2-hydroxyethyl)thio]-2,5-dioxo-1-pyrrolidinyl]methyl]cyclohexyl]methyl]amino]-3-oxopropyl]- ω -

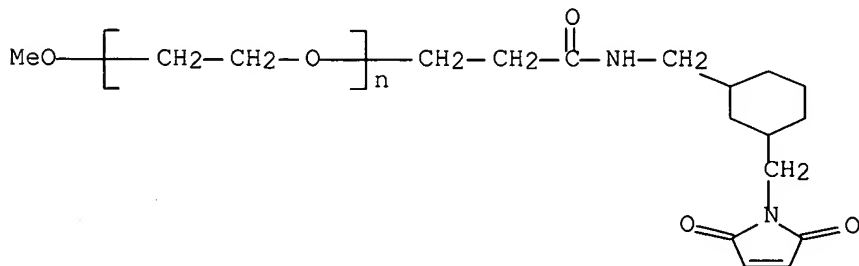
methoxy- (9CI) (CA INDEX NAME)
 MF (C2 H4 O)_n C18 H30 N2 O5 S
 CI PMS
 PCT Polyether
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL



1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 141:140951

L50 ANSWER 5 OF 10 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 724722-75-2 REGISTRY
 ED Entered STN: 10 Aug 2004
 CN Poly(oxy-1,2-ethanediyl), α -[3-[[[3-[(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)methyl]cyclohexyl]methyl]amino]-3-oxopropyl]- ω -methoxy-
 (9CI) (CA INDEX NAME)
 MF (C2 H4 O)_n C16 H24 N2 O4
 CI PMS
 PCT Polyether
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

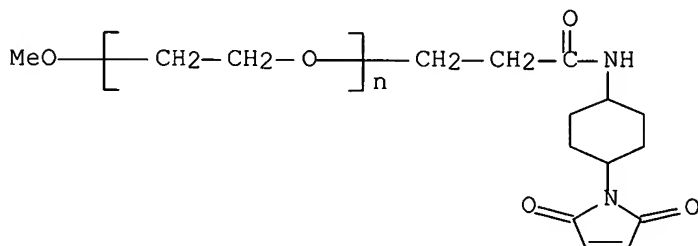


2 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 144:129719

REFERENCE 2: 141:140951

L50 ANSWER 6 OF 10 REGISTRY COPYRIGHT 2006 ACS on STN
RN 724722-68-3 REGISTRY
ED Entered STN: 10 Aug 2004
CN Poly(oxy-1,2-ethanediyl), α -[3-[[[(trans)-4-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)cyclohexyl]amino]-3-oxopropyl]- ω -methoxy- (9CI) (CA INDEX NAME)
MF (C2 H4 O)_n C14 H20 N2 O4
CI PMS
PCT Polyether
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

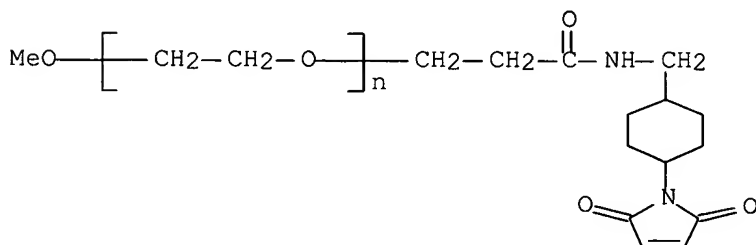


2 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 144:129719

REFERENCE 2: 141:140951

L50 ANSWER 7 OF 10 REGISTRY COPYRIGHT 2006 ACS on STN
RN 724722-58-1 REGISTRY
ED Entered STN: 10 Aug 2004
CN Poly(oxy-1,2-ethanediyl), α -[3-[[[(trans)-4-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)cyclohexyl]methyl]amino]-3-oxopropyl]- ω -methoxy- (9CI) (CA INDEX NAME)
MF (C2 H4 O)_n C15 H22 N2 O4
CI PMS
PCT Polyether
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

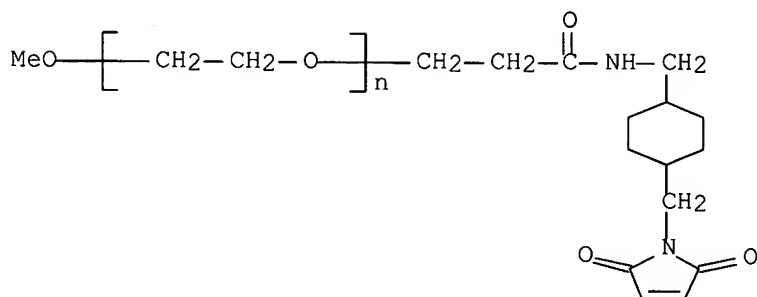


2 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 144:129719

REFERENCE 2: 141:140951

L50 ANSWER 8 OF 10 REGISTRY COPYRIGHT 2006 ACS on STN
RN 724722-47-8 REGISTRY
ED Entered STN: 10 Aug 2004
CN Poly(oxy-1,2-ethanediyl), α -[3-[[[4-[(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)methyl]cyclohexyl)methyl]amino]-3-oxopropyl]- ω -methoxy-
(9CI) (CA INDEX NAME)
MF (C2 H4 O)_n C16 H24 N2 O4
CI PMS
PCT Polyether
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

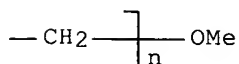
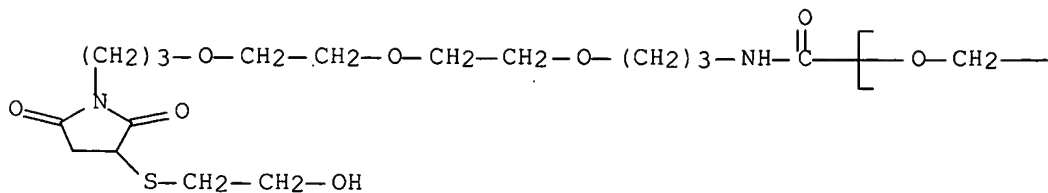


2 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 144:129719

REFERENCE 2: 141:140951

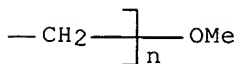
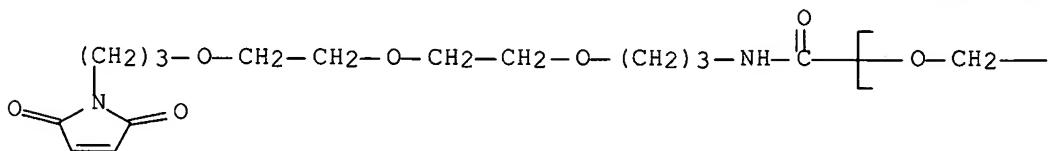
L50 ANSWER 9 OF 10 REGISTRY COPYRIGHT 2006 ACS on STN
RN 724722-30-9 REGISTRY
ED Entered STN: 10 Aug 2004
CN Poly(oxy-1,2-ethanediyl), α -[15-[3-[(2-hydroxyethyl)thio]-2,5-dioxo-1-pyrrolidiny]-1-oxo-6,9,12-trioxa-2-azapentadec-1-yl]- ω -methoxy-
(9CI) (CA INDEX NAME)
MF (C2 H4 O)_n C18 H32 N2 O8 S
CI PMS
PCT Polyether
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 141:140951

```
L50 ANSWER 10 OF 10  REGISTRY  COPYRIGHT 2006 ACS on STN
RN 724722-20-7  REGISTRY
ED Entered STN: 10 Aug 2004
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -[15-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)-1-oxo-6,9,12-trioxa-2-azapentadec-1-yl]- $\omega$ -methoxy- (9CI) (CA INDEX NAME)
MF (C2 H4 O)n C16 H26 N2 O7
CI PMS
PCT Polyether
SR CA
LC STN Files: CA, CAPLUS, USPATFULL
```



2 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 144:129719

REFERENCE 2: 141:140951

=> fil hcaplus

FILE 'HCAPLUS' ENTERED AT 14:48:51 ON 25 SEP 2006

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2006 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 25 Sep 2006 VOL 145 ISS 14

FILE LAST UPDATED: 24 Sep 2006 (20060924/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d bib abs hitstr retable tot 154

L54 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2006:37101 HCAPLUS Full-text

DN 144:129719

TI Hydrolytically stable maleimide-terminated polymers

IN Kozlowski, Antoni; Gross, Remy F., III; McManus, Samuel P.

PA USA

SO U.S. Pat. Appl. Publ., 47 pp., Cont.-in-part of U.S. Ser. No. 751,274.
CODEN: USXXCO

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2006009590	A1	20060112	US 2005-91024	20050325 <--
	US 2004204548	A1	20041014	US 2003-751274	20031231 <--
PRAI	US 2002-437211P	P	20021231	<--	
	US 2003-751274	A2	20031231	<--	

OS MARPAT 144:129719

AB The present invention is directed to hydrolytically stabilized maleimide-functionalized water soluble polymers (e.g., polyethylene glycol derivs.) and to methods for making and utilizing such polymers and their precursors.

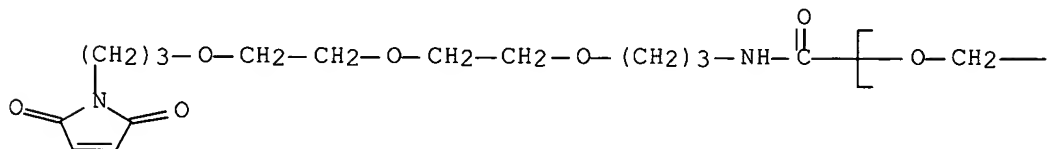
IT 724722-20-7DP, conjugate with 2-mercaptoethanol
724722-20-7P 724722-47-8DP, conjugate with
2-mercaptoethanol 724722-47-8P 724722-58-1DP,
conjugate with 2-mercaptoethanol 724722-58-1P
724722-68-3DP, conjugate with 2-mercaptoethanol
724722-75-2DP, conjugate with 2-mercaptoethanol
724722-75-2P

RL: IMF (Industrial manufacture); PREP (Preparation)
(hydrolytically stable maleimide-terminated polymers)

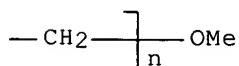
RN 724722-20-7 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α -[15-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)-1-oxo-6,9,12-trioxa-2-azapentadec-1-yl]- ω -methoxy- (9CI) (CA INDEX NAME)

PAGE 1-A



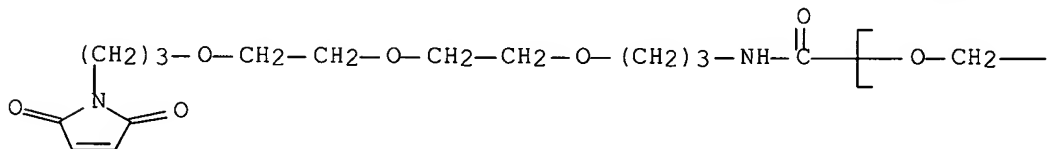
PAGE 1-B



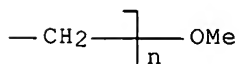
RN 724722-20-7 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α -[15-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)-1-oxo-6,9,12-trioxa-2-azapentadec-1-yl]- ω -methoxy- (9CI) (CA INDEX NAME)

PAGE 1-A

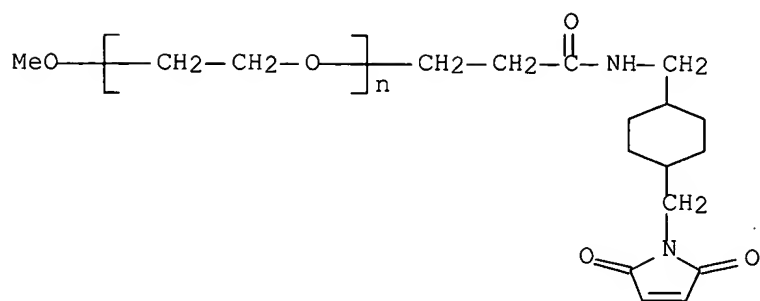


PAGE 1-B



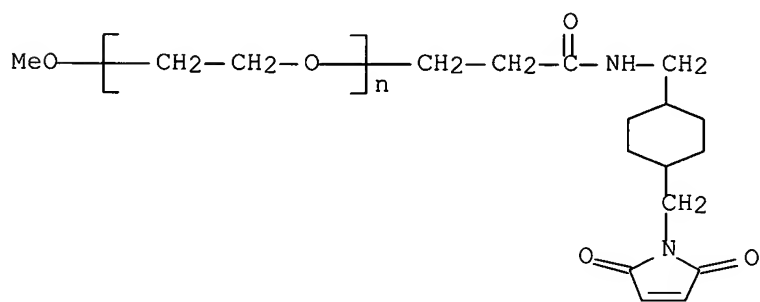
RN 724722-47-8 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α -[3-[[[4-[(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)methyl]cyclohexyl]methyl]amino]-3-oxopropyl]- ω -methoxy- (9CI) (CA INDEX NAME)



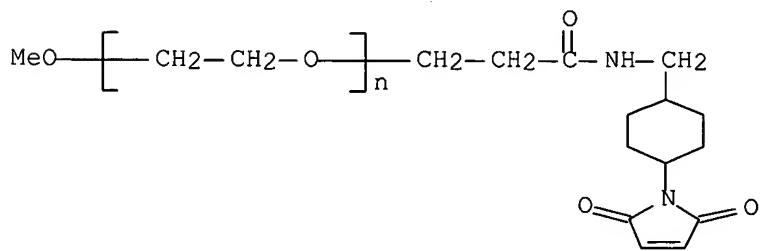
RN 724722-47-8 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α -[3-[[[4-[(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)methyl]cyclohexyl]methyl]amino]-3-oxopropyl]- ω -methoxy-
(9CI) (CA INDEX NAME)



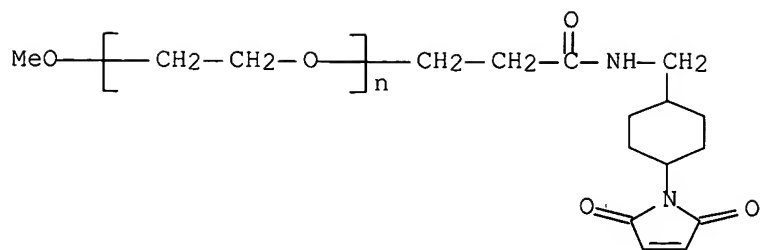
RN 724722-58-1 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α -[3-[[[(trans)-4-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)cyclohexyl]methyl]amino]-3-oxopropyl]- ω -methoxy-
(9CI) (CA INDEX NAME)



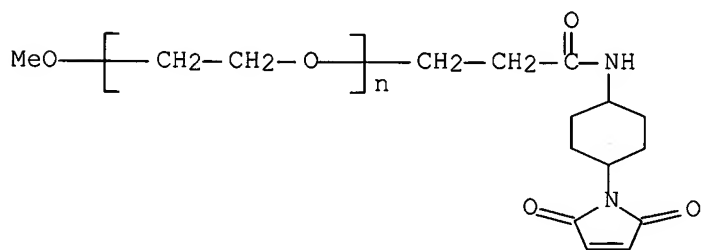
RN 724722-58-1 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α -[3-[[[(trans)-4-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)cyclohexyl]methyl]amino]-3-oxopropyl]- ω -methoxy-
(9CI) (CA INDEX NAME)



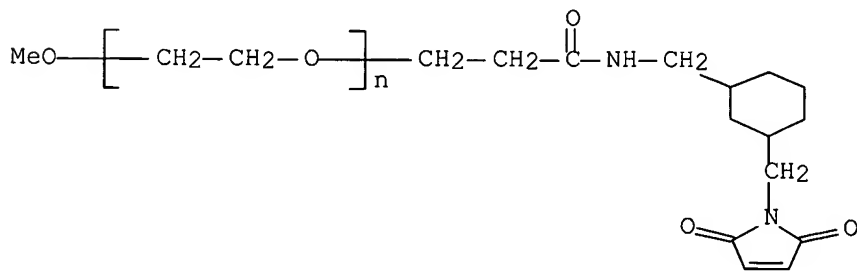
RN 724722-68-3 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α -[3-[[[(trans)-4-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)cyclohexyl]amino]-3-oxopropyl]- ω -methoxy- (9CI) (CA INDEX NAME)



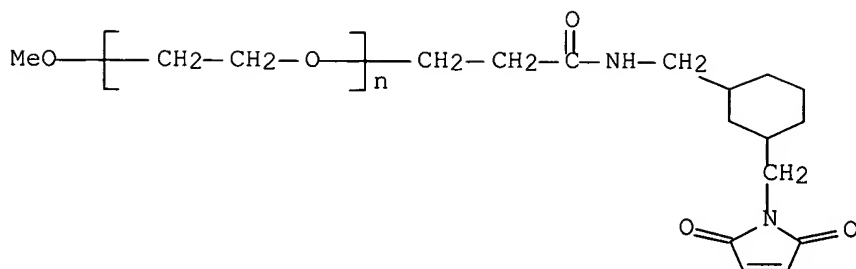
RN 724722-75-2 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α -[3-[[[3-[(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)methyl]cyclohexyl]methyl]amino]-3-oxopropyl]- ω -methoxy- (9CI) (CA INDEX NAME)



RN 724722-75-2 HCAPLUS

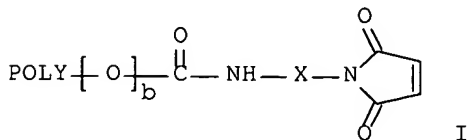
CN Poly(oxy-1,2-ethanediyl), α -[3-[[[3-[(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)methyl]cyclohexyl]methyl]amino]-3-oxopropyl]- ω -methoxy- (9CI) (CA INDEX NAME)



L54 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2006 ACS on STN
 AN 2004:589588 HCAPLUS Full-text
 DN 141:140951
 TI Hydrolytically stable maleimide-terminated polymers and their preparation
 IN Kozlowski, Antoni; Gross, Remy F., III; McManus, Samuel P.
 PA Nektar Therapeutics Al, Corporation, USA
 SO PCT Int. Appl., 118 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004060965	A2	20040722	WO 2003-US41699	20031231 <--
	WO 2004060965	A3	20041007		
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW:				
	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	CA 2509153	AA	20040722	CA 2003-2509153	20031231 <--
	AU 2003300133	A1	20040729	AU 2003-300133	20031231 <--
	EP 1578842	A2	20050928	EP 2003-800391	20031231 <--
	R:				
	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	CN 1732206	A	20060208	CN 2003-80108010	20031231 <--
	JP 2006512445	T2	20060413	JP 2004-564914	20031231 <--
PRAI	US 2002-437211P	P	20021231	<--	
	WO 2003-US41699	W	20031231	<--	

GI



AB The hydrolytically stabilized maleimide-functionalized water-soluble polymer I (POLY = water-soluble polymer segment; b = 0, 1; X = a hydrolytically stable linker containing ≥3 contiguous saturated carbon atom) is absent aromatic groups and ester linkages.

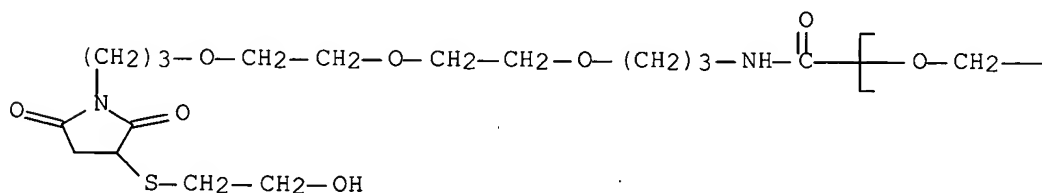
IT 724722-30-9P 724722-47-8P 724722-58-1P
724722-68-3P 724722-77-4P 724722-80-9P
724722-83-2P 724722-86-5P

RL: IMF (Industrial manufacture); PREP (Preparation)
(preparation of hydrolytically stable maleimide-terminated polymers)

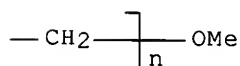
RN 724722-30-9 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α-[15-[3-[(2-hydroxyethyl)thio]-2,5-dioxo-1-pyrrolidinyl]-1-oxo-6,9,12-trioxa-2-azapentadec-1-yl]-ω-methoxy-
(9CI) (CA INDEX NAME)

PAGE 1-A

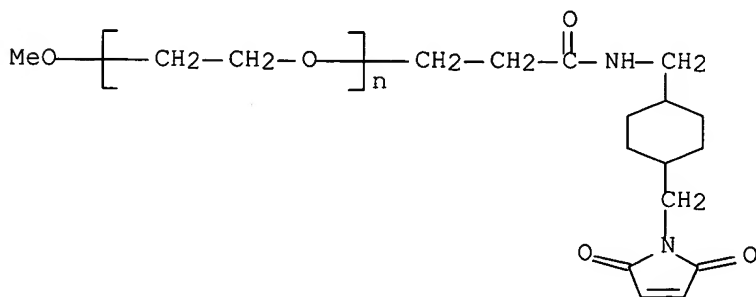


PAGE 1-B



RN 724722-47-8 HCAPLUS

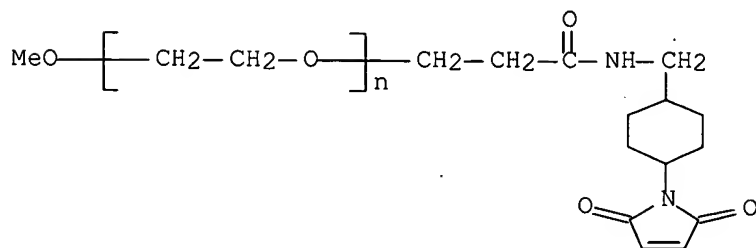
CN Poly(oxy-1,2-ethanediyl), α-[3-[[[4-[(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)methyl]cyclohexyl)methyl]amino]-3-oxopropyl]-ω-methoxy-
(9CI) (CA INDEX NAME)



RN 724722-58-1 HCAPLUS

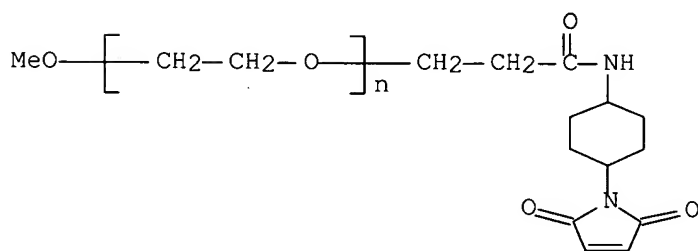
CN Poly(oxy-1,2-ethanediyl), α-[3-[[[(trans)-4-(2,5-dihydro-2,5-dioxo-

1H-pyrrol-1-yl)cyclohexyl)methyl]amino]-3-oxopropyl]-ω-methoxy-
(9CI) (CA INDEX NAME)



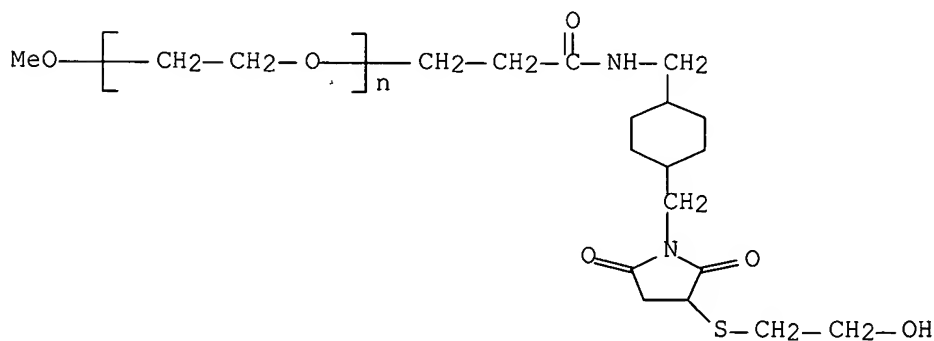
RN 724722-68-3 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α-[3-[[[(trans)-4-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)cyclohexyl]amino]-3-oxopropyl]-ω-methoxy- (9CI) (CA INDEX NAME)



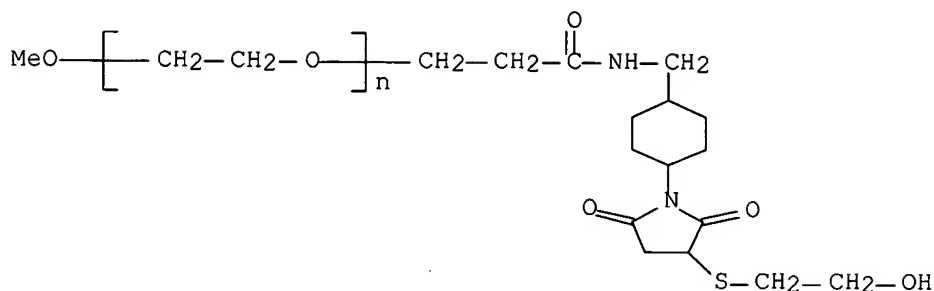
RN 724722-77-4 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α-[3-[[[4-[[3-[(2-hydroxyethyl)thio]-2,5-dioxo-1-pyrrolidinyl)methyl]cyclohexyl)methyl]amino]-3-oxopropyl]-ω-methoxy- (9CI) (CA INDEX NAME)



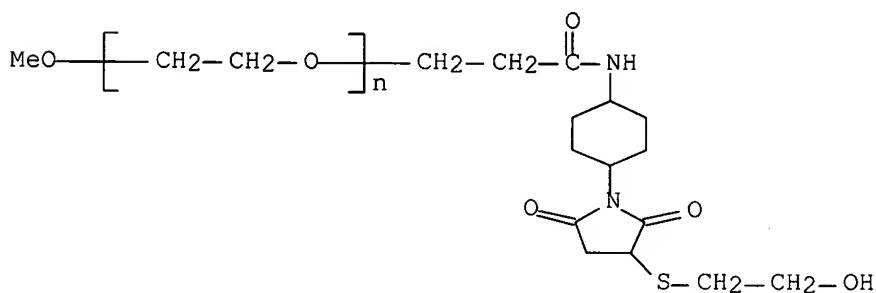
RN 724722-80-9 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α-[3-[[[(trans)-4-[3-[(2-hydroxyethyl)thio]-2,5-dioxo-1-pyrrolidinyl]cyclohexyl)methyl]amino]-3-oxopropyl]-ω-methoxy- (9CI) (CA INDEX NAME)



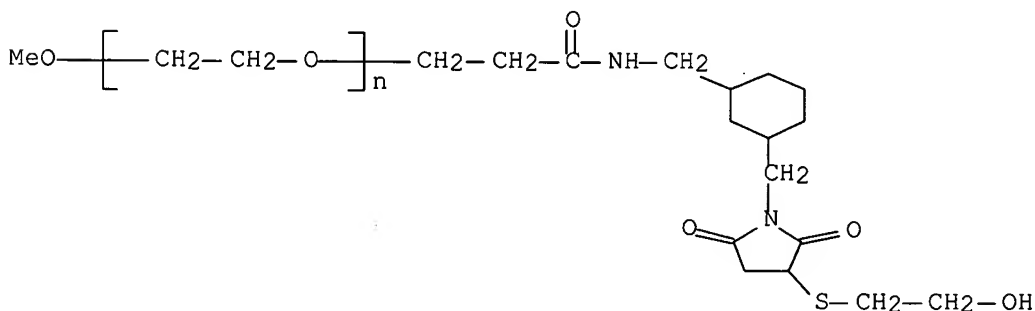
RN 724722-83-2 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α -[3-[[[(trans)-4-[3-[(2-hydroxyethyl)thio]-2,5-dioxo-1-pyrrolidinyl]cyclohexyl]amino]-3-oxopropyl]- ω -methoxy- (9CI) (CA INDEX NAME)



RN 724722-86-5 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α -[3-[[[3-[[3-[(2-hydroxyethyl)thio]-2,5-dioxo-1-pyrrolidinyl]methyl]cyclohexyl]methyl]amino]-3-oxopropyl]- ω -methoxy- (9CI) (CA INDEX NAME)



IT 724722-20-7P

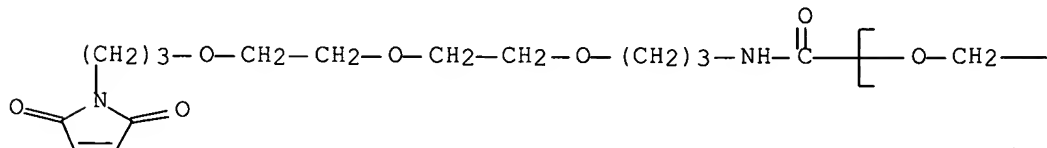
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

(preparation of hydrolytically stable maleimide-terminated polymers)

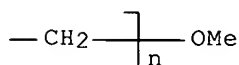
RN 724722-20-7 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α -[15-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)-1-oxo-6,9,12-trioxa-2-azapentadec-1-yl]- ω -methoxy- (9CI) (CA INDEX NAME)

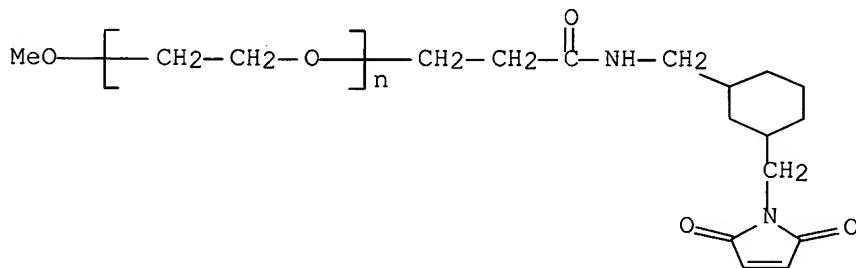
PAGE 1-A



PAGE 1-B



IT 724722-75-2
 RL: TEM (Technical or engineered material use); USES (Uses)
 (preparation of hydrolytically stable maleimide-terminated polymers)
 RN 724722-75-2 HCAPLUS
 CN Poly(oxy-1,2-ethanediyl), α -[3-[[[3-[(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)methyl]cyclohexyl)methyl]amino]-3-oxopropyl]- ω -methoxy- (9CI) (CA INDEX NAME)



=> fil uspatful

FILE 'USPATFULL' ENTERED AT 14:49:09 ON 25 SEP 2006

CA INDEXING COPYRIGHT (C) 2006 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 21 Sep 2006 (20060921/PD)

FILE LAST UPDATED: 21 Sep 2006 (20060921/ED)

HIGHEST GRANTED PATENT NUMBER: US7111325

HIGHEST APPLICATION PUBLICATION NUMBER: US2006212984

CA INDEXING IS CURRENT THROUGH 21 Sep 2006 (20060921/UPCA)

ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 21 Sep 2006 (20060921/PD)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2006

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2006

=> d bib abs hitstr tot 155

L55 ANSWER 1 OF 2 USPATFULL on STN

AN 2006:10736 USPATFULL Full-text

TI Hydrolytically stable maleimide-terminated polymers

IN Kozlowski, Antoni, Huntsville, AL, UNITED STATES

Gross, Remy F. III, Petaluma, CA, UNITED STATES

McManus, Samuel P., Brevard, NC, UNITED STATES

PI US 2006009590 A1 20060112

AI US 2005-91024 A1 20050325 (11)

RLI Continuation-in-part of Ser. No. US 2003-751274, filed on 31 Dec 2003,
PENDING

PRAI US 2002-437211P 20021231 (60)

DT Utility

FS APPLICATION

LREP NEKTAR THERAPEUTICS, 150 INDUSTRIAL ROAD, SAN CARLOS, CA, 94070, US

CLMN Number of Claims: 44

ECL Exemplary Claim: 1-105

DRWN 3 Drawing Page(s)

LN.CNT 2972

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to hydrolytically stabilized maleimide-
functionalized water soluble polymers and to methods for making and utilizing
such polymers and their precursors.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 724722-20-7DP, conjugate with 2-mercaptoethanol

724722-20-7P 724722-47-8DP, conjugate with

2-mercaptoethanol 724722-47-8P 724722-58-1DP,

conjugate with 2-mercaptoethanol 724722-58-1P

724722-68-3DP, conjugate with 2-mercaptoethanol

724722-75-2DP, conjugate with 2-mercaptoethanol

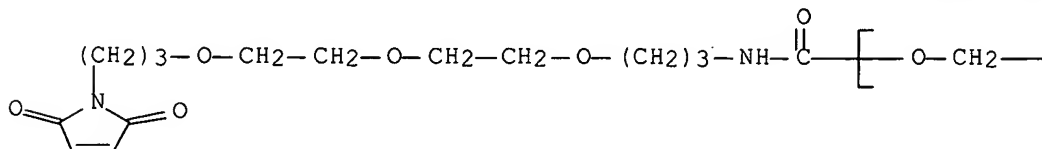
724722-75-2P

(hydrolytically stable maleimide-terminated polymers)

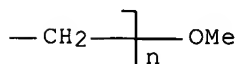
RN 724722-20-7 USPATFULL

CN Poly(oxy-1,2-ethanediyl), α -[15-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-
yl)-1-oxo-6,9,12-trioxa-2-azapentadec-1-yl]- ω -methoxy- (9CI) (CA
INDEX NAME)

PAGE 1-A



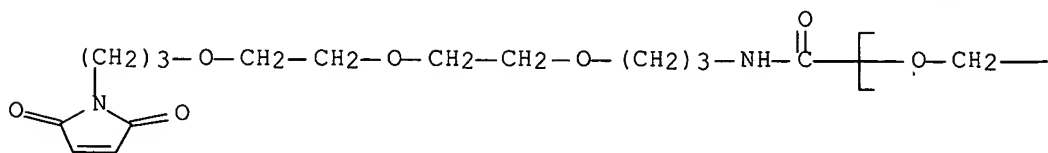
PAGE 1-B



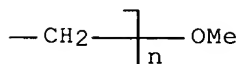
RN 724722-20-7 USPATFULL

CN Poly(oxy-1,2-ethanediyl), α -[15-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)-1-oxo-6,9,12-trioxa-2-azapentadec-1-yl]- ω -methoxy- (9CI) (CA INDEX NAME)

PAGE 1-A

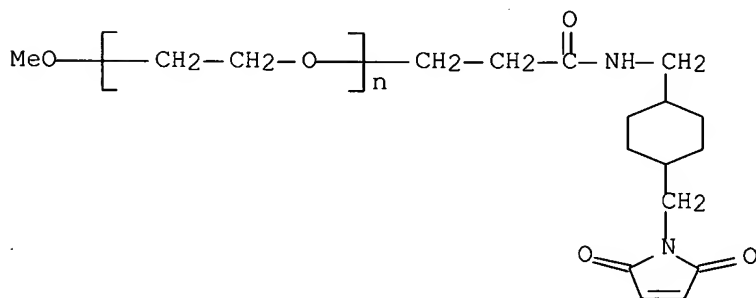


PAGE 1-B



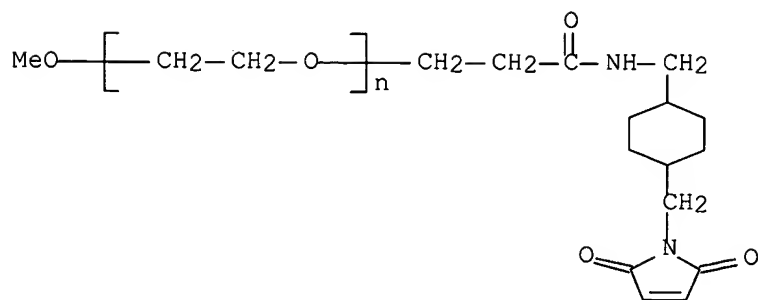
RN 724722-47-8 USPATFULL

CN Poly(oxy-1,2-ethanediyl), α -[3-[[[4-[(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)methyl]cyclohexyl)methyl]amino]-3-oxopropyl]- ω -methoxy- (9CI) (CA INDEX NAME)



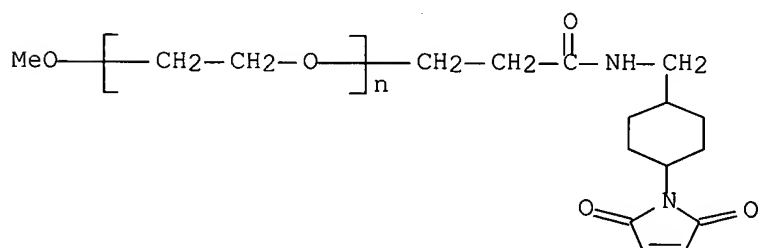
RN 724722-47-8 USPATFULL

CN Poly(oxy-1,2-ethanediyl), α -[3-[[[4-[(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)methyl]cyclohexyl)methyl]amino]-3-oxopropyl]- ω -methoxy- (9CI) (CA INDEX NAME)



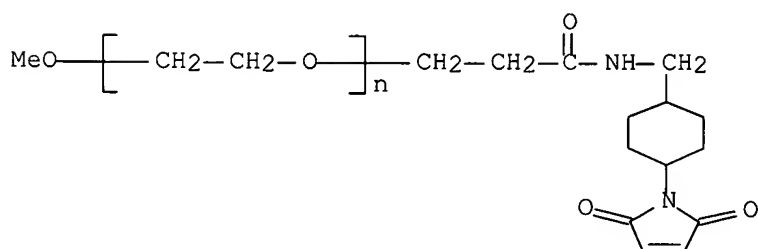
RN 724722-58-1 USPATFULL

CN Poly(oxy-1,2-ethanediyl), α -[3-[[[(trans)-4-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)cyclohexyl]methyl]amino]-3-oxopropyl]- ω -methoxy- (9CI) (CA INDEX NAME)



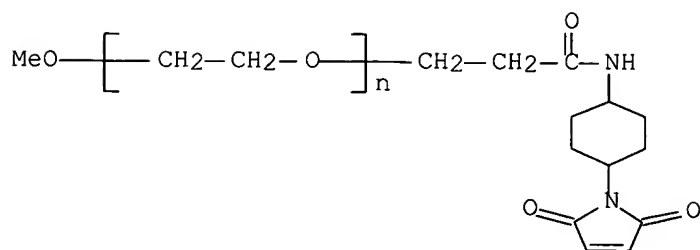
RN 724722-58-1 USPATFULL

CN Poly(oxy-1,2-ethanediyl), α -[3-[[[(trans)-4-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)cyclohexyl]methyl]amino]-3-oxopropyl]- ω -methoxy- (9CI) (CA INDEX NAME)



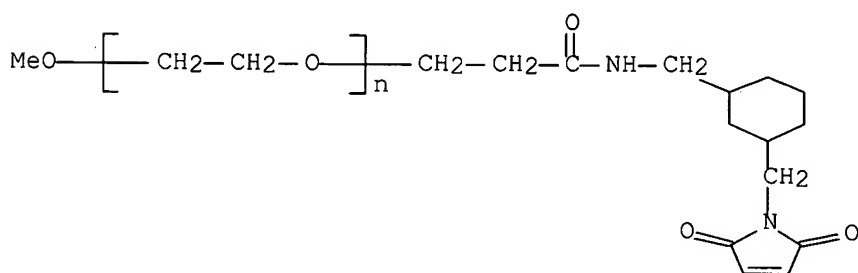
RN 724722-68-3 USPATFULL

CN Poly(oxy-1,2-ethanediyl), α -[3-[[[(trans)-4-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)cyclohexyl]amino]-3-oxopropyl]- ω -methoxy- (9CI) (CA INDEX NAME)



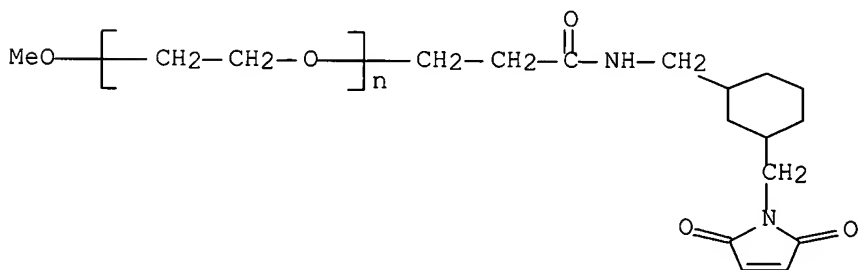
RN 724722-75-2 USPATFULL

CN Poly(oxy-1,2-ethanediyl), α -[3-[[[3-[(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)methyl]cyclohexyl)methyl]amino]-3-oxopropyl]- ω -methoxy-
(9CI) (CA INDEX NAME)



RN 724722-75-2 USPATFULL

CN Poly(oxy-1,2-ethanediyl), α -[3-[[[3-[(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)methyl]cyclohexyl)methyl]amino]-3-oxopropyl]- ω -methoxy-
(9CI) (CA INDEX NAME)



L55 ANSWER 2 OF 2 USPATFULL on STN

AN 2004:262046 USPATFULL Full-text

TI Hydrolytically stable maleimide-terminated polymers

IN Kozlowski, Antoni, Huntsville, AL, UNITED STATES

Gross, Remy F., III, Huntsville, AL, UNITED STATES

McManus, Samuel P., Brevard, NC, UNITED STATES

PI US 2004204548 A1 20041014

AI US 2003-751274 A1 20031231 (10)

PRAI US 2002-437211P 20021231 (60)

DT Utility

FS APPLICATION

LREP NEKTAR THERAPEUTICS, 150 INDUSTRIAL ROAD, SAN CARLOS, CA, 94070

CLMN Number of Claims: 130

ECL Exemplary Claim: 1

DRWN 3 Drawing Page(s)

LN.CNT 3229

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to hydrolytically stabilized maleimide-functionalized water soluble polymers and to methods for making and utilizing such polymers and their precursors.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 724722-30-9P 724722-47-8P 724722-58-1P

724722-68-3P 724722-77-4P 724722-80-9P

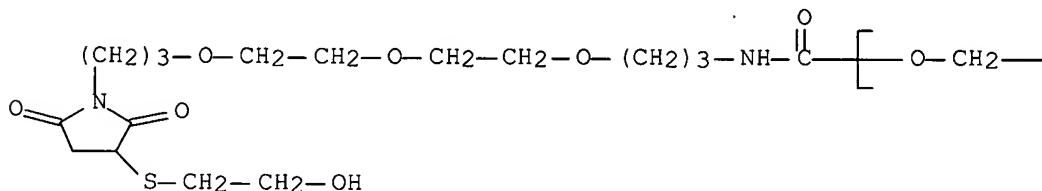
724722-83-2P 724722-86-5P

(preparation of hydrolytically stable maleimide-terminated polymers)

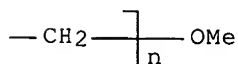
RN 724722-30-9 USPTFULL

CN Poly(oxy-1,2-ethanediyl), α -[15-[3-[(2-hydroxyethyl)thio]-2,5-dioxo-1-pyrrolidiny]-1-oxo-6,9,12-trioxa-2-azapentadec-1-yl]- ω -methoxy-
(9CI) (CA INDEX NAME)

PAGE 1-A

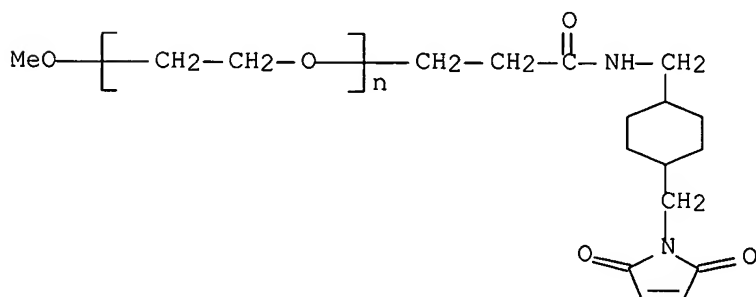


PAGE 1-B



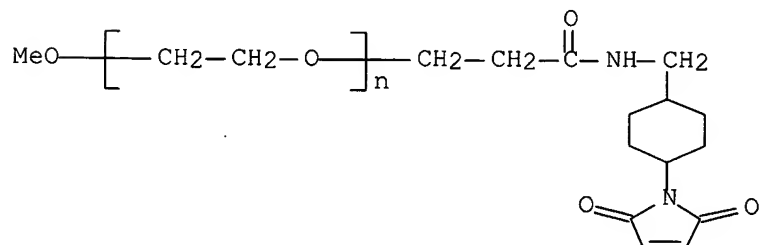
RN 724722-47-8 USPTFULL

CN Poly(oxy-1,2-ethanediyl), α -[3-[[[4-[(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)methyl]cyclohexyl)methyl]amino]-3-oxopropyl]- ω -methoxy-
(9CI) (CA INDEX NAME)



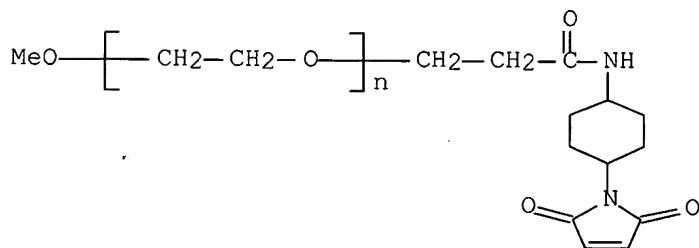
RN 724722-58-1 USPATFULL

CN Poly(oxy-1,2-ethanediyl), α -[3-[[[(trans)-4-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)cyclohexyl]methyl]amino]-3-oxopropyl]- ω -methoxy- (9CI) (CA INDEX NAME)



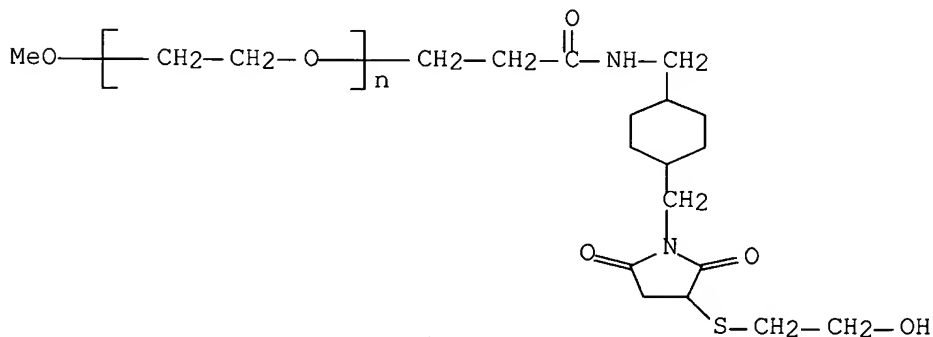
RN 724722-68-3 USPATFULL

CN Poly(oxy-1,2-ethanediyl), α -[3-[[[(trans)-4-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)cyclohexyl]amino]-3-oxopropyl]- ω -methoxy- (9CI) (CA INDEX NAME)



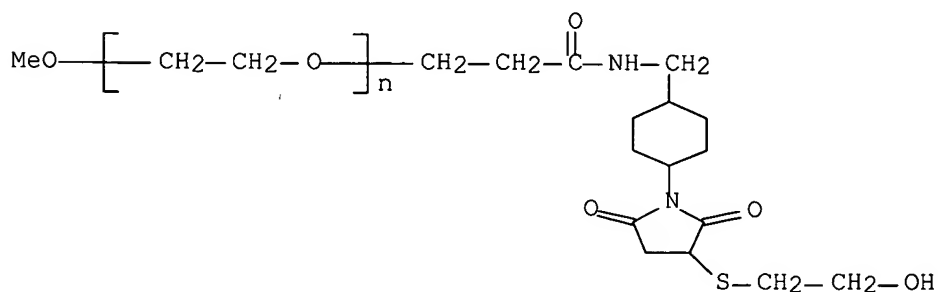
RN 724722-77-4 USPATFULL

CN Poly(oxy-1,2-ethanediyl), α -[3-[[[4-[[3-[(2-hydroxyethyl)thio]-2,5-dioxo-1-pyrrolidinyl]methyl]cyclohexyl]methyl]amino]-3-oxopropyl]- ω -methoxy- (9CI) (CA INDEX NAME)



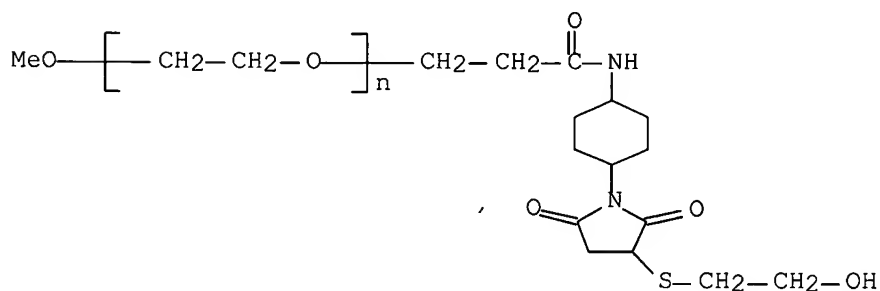
RN 724722-80-9 USPATFULL

CN Poly(oxy-1,2-ethanediyl), α -[3-[[[(trans)-4-[3-[(2-hydroxyethyl)thio]-2,5-dioxo-1-pyrrolidinyl]cyclohexyl]methyl]amino]-3-oxopropyl]- ω -methoxy- (9CI) (CA INDEX NAME)



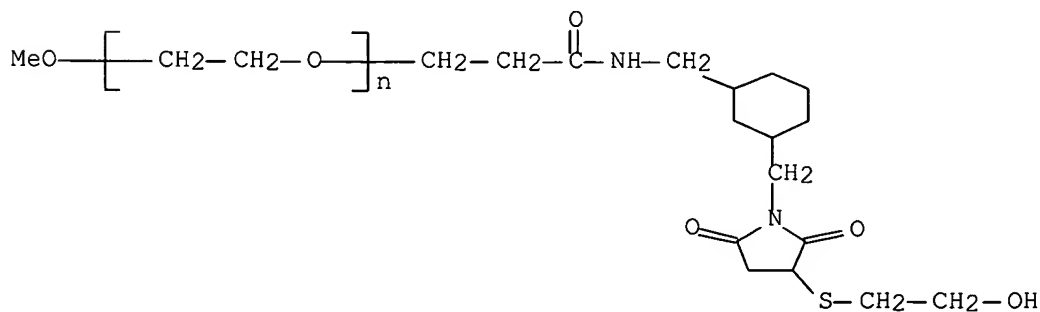
RN 724722-83-2 USPATFULL

CN Poly(oxy-1,2-ethanediyl), α -[3-[[[(trans)-4-[3-[(2-hydroxyethyl)thio]-2,5-dioxo-1-pyrrolidinyl]cyclohexyl]amino]-3-oxopropyl]- ω -methoxy- (9CI) (CA INDEX NAME)



RN 724722-86-5 USPATFULL

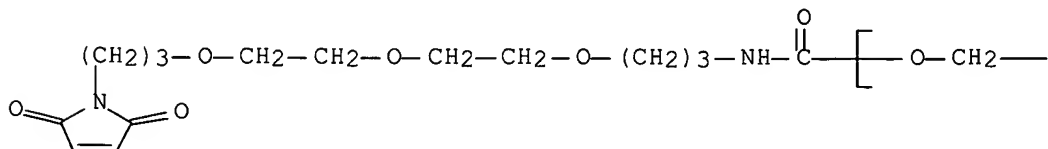
CN Poly(oxy-1,2-ethanediyl), α -[3-[[[3-[[3-[(2-hydroxyethyl)thio]-2,5-dioxo-1-pyrrolidinyl]methyl]cyclohexyl]methyl]amino]-3-oxopropyl]- ω -methoxy- (9CI) (CA INDEX NAME)



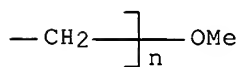
IT 724722-20-7P

(preparation of hydrolytically stable maleimide-terminated polymers)
 RN 724722-20-7 USPATFULL
 CN Poly(oxy-1,2-ethanediyl), α -[15-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)-1-oxo-6,9,12-trioxa-2-azapentadec-1-yl]- ω -methoxy- (9CI) (CA INDEX NAME)

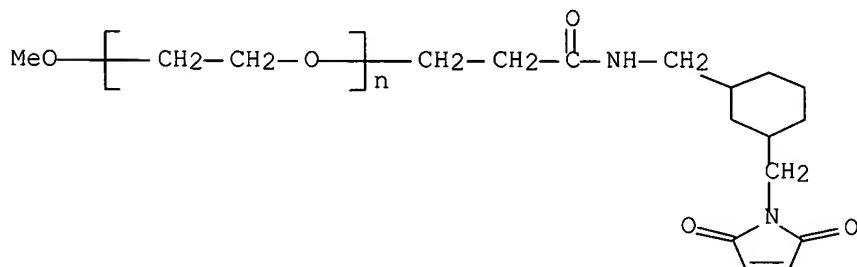
PAGE 1-A



PAGE 1-B



IT 724722-75-2
 (preparation of hydrolytically stable maleimide-terminated polymers)
 RN 724722-75-2 USPATFULL
 CN Poly(oxy-1,2-ethanediyl), α -[3-[[[3-[(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)methyl]cyclohexyl]methyl]amino]-3-oxopropyl]- ω -methoxy- (9CI) (CA INDEX NAME)



=> => fil reg
 FILE 'REGISTRY' ENTERED AT 14:56:33 ON 25 SEP 2006
 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
 PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
 COPYRIGHT (C) 2006 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 24 SEP 2006 HIGHEST RN 908332-13-8
 DICTIONARY FILE UPDATES: 24 SEP 2006 HIGHEST RN 908332-13-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

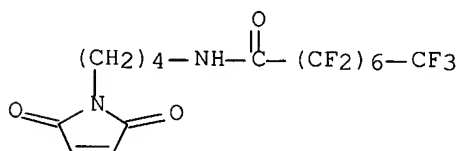
<http://www.cas.org/ONLINE/UG/regprops.html>

=> d ide can tot 160

L60 ANSWER 1 OF 9 REGISTRY COPYRIGHT 2006 ACS on STN
RN 880551-82-6 REGISTRY
ED Entered STN: 17 Apr 2006
CN Octanamide, N-[4-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)butyl]-
2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, polymer with 1-octadecene,
alternating (9CI) (CA INDEX NAME)
MF (C18 H36 . C16 H11 F15 N2 O3)x
CI PMS
PCT Polyolefin, Polyvinyl
SR CA
LC STN Files: CA, CAPLUS

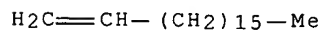
CM 1

CRN 880551-80-4
CMF C16 H11 F15 N2 O3



CM 2

CRN 112-88-9
CMF C18 H36



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

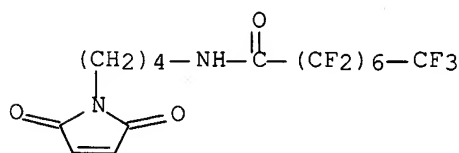
REFERENCE 1: 144:332070

L60 ANSWER 2 OF 9 REGISTRY COPYRIGHT 2006 ACS on STN

RN 880551-81-5 REGISTRY
 ED Entered STN: 17 Apr 2006
 CN Octanamide, N-[4-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)butyl]-
 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, polymer with ethene,
 alternating (9CI) (CA INDEX NAME)
 MF (C16 H11 F15 N2 O3 . C2 H4)x
 CI PMS
 PCT Polyolefin, Polyvinyl
 SR CA
 LC STN Files: CA, CAPLUS

CM 1

CRN 880551-80-4
 CMF C16 H11 F15 N2 O3



CM 2

CRN 74-85-1
 CMF C2 H4



1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 144:332070

L60 ANSWER 3 OF 9 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 871133-41-4 REGISTRY
 ED Entered STN: 04 Jan 2006
 CN Poly(oxy-1,2-ethanediyl), α -[2-[(23-carboxytricosyl)amino]-2-
 oxoethyl]- ω -[2-[[4-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-
 yl)butyl]amino]-2-oxoethoxy]- (9CI) (CA INDEX NAME)
 MF (C2 H4 O)n C36 H63 N3 O7
 CI PMS
 PCT Polyether
 SR CA
 LC STN Files: CA, CAPLUS

REFERENCE 1: 144:51444

CM 1

CC1=CC=C2C(=C1)S(=C2)C(=O)C(=C3C=C(C)C=C3C(=O)NCCCCNC(=O)C=C)C

CM 2

$$\text{H}_2\text{N}-\overset{\text{O}}{\parallel}{\text{C}}-\text{CH}=\text{CH}_2$$

CM 3

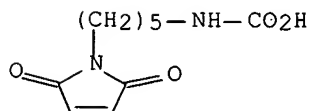
CRN 869587-19-9

CMF C10 H14 N2 O4 . x Unspecified

CM 4

CRN 869587-18-8

CMF C10 H14 N2 O4



CM 5

CRN 9050-36-6

CMF Unspecified

CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 143:483236

L60 ANSWER 5 OF 9 REGISTRY COPYRIGHT 2006 ACS on STN

RN 869587-19-9 REGISTRY

ED Entered STN: 08 Dec 2005

CN Maltodextrin, [5-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)pentyl]carbamate
(9CI) (CA INDEX NAME)

MF C10 H14 N2 O4 . x Unspecified

CI COM

PCT Manual registration

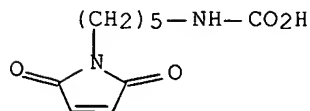
SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

CM 1

CRN 869587-18-8

CMF C10 H14 N2 O4



CM 2

CRN 9050-36-6
CMF Unspecified
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 143:483236

L60 ANSWER 6 OF 9 REGISTRY COPYRIGHT 2006 ACS on STN

RN 479421-81-3 REGISTRY

ED Entered STN: 17 Jan 2003

CN Poly(oxy-1,2-ethanediyl), α, α' -[[$(1\alpha, 3\alpha, 5\alpha)$ -5-[[[[[3-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)propyl]amino]carbonyl]oxy]methyl]-1,3-cyclohexanediyl]bis(methyleneoxycarbonylimino-3,1-propanediyl)]bis[ω -methoxy- (9CI) (CA INDEX NAME)

MF (C2 H4 O)_n (C2 H4 O)_n C27 H44 N4 O10

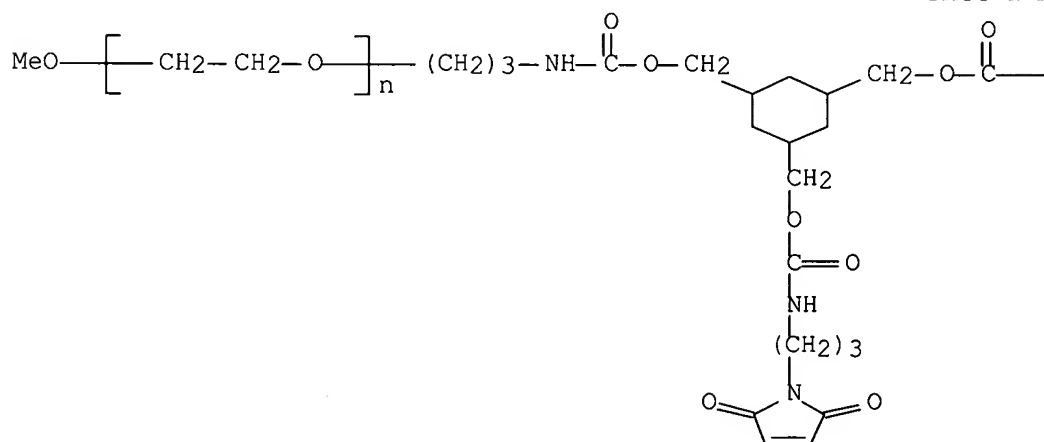
CI PMS

PCT Polyether

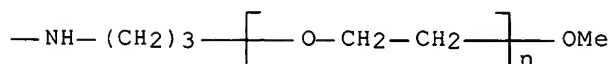
SR CA

LC STN Files: CA, CAPLUS

PAGE 1-A



PAGE 1-B



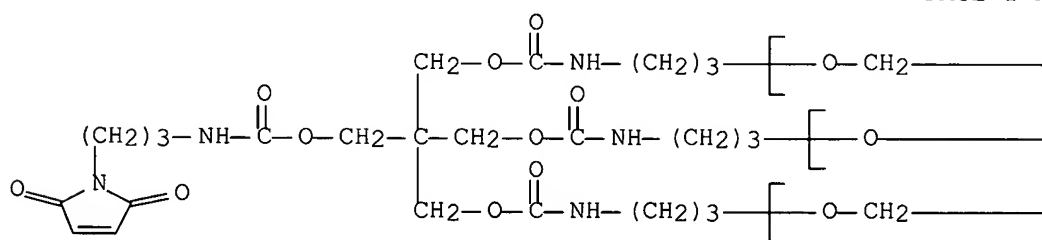
1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:78455

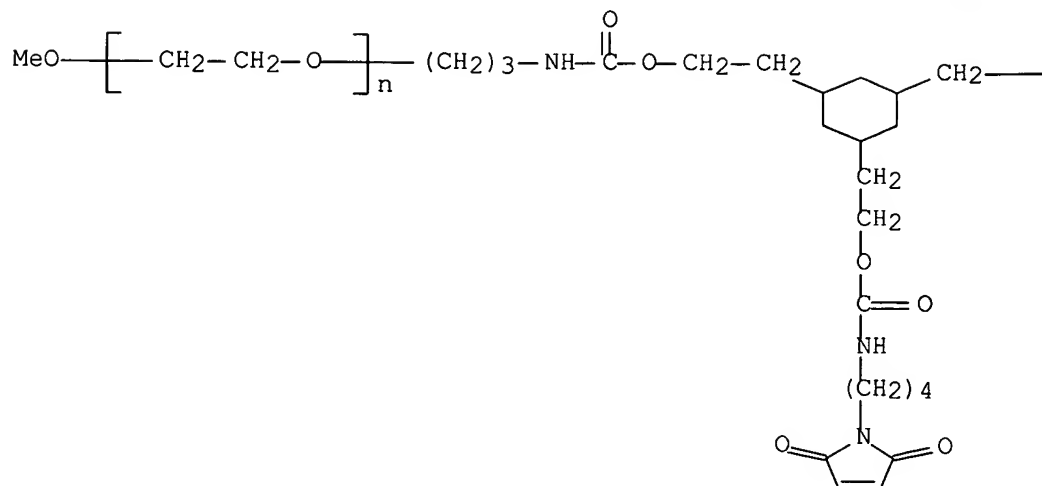
PAGE 1-A


$$\begin{array}{l} \text{---CH}_2\text{---} \bigg]_n \text{OMe} \\ \text{---CH}_2\text{---CH}_2\text{---} \bigg]_n \text{OMe} \\ \text{---CH}_2\text{---} \bigg]_n \text{OMe} \end{array}$$

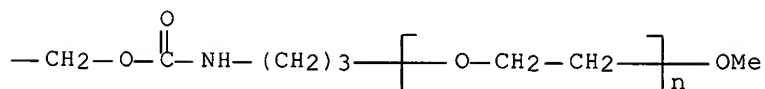
```
L60  ANSWER 8 OF 9  REGISTRY  COPYRIGHT 2006 ACS on STN
RN   348098-39-5  REGISTRY
ED   Entered STN:   25 Jul 2001
CN   Poly(oxy-1,2-ethanediyl),  $\alpha,\alpha'$ -[[ (1 $\alpha$ ,3 $\alpha$ ,5 $\alpha$ )-
5-[2-[[[4-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-
yl)butyl]amino]carbonyl]oxy]ethyl]-1,3-cyclohexanediyl]bis(2,1-
ethanediyl)oxycarbonylimino-3,1-propanediyl)]bis[ $\omega$ -methoxy- (9CI)
(CA INDEX NAME)
MF   (C2 H4 O)n (C2 H4 O)n C31 H52 N4 O10
CI   PMS
```


PCT Polyether
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

PAGE 1-A



PAGE 1-B



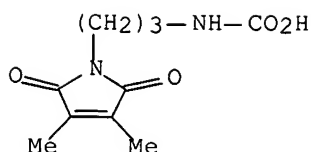
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 135:87194

L60 ANSWER 9 OF 9 REGISTRY COPYRIGHT 2006 ACS on STN
RN 183149-96-4 REGISTRY
ED Entered STN: 19 Nov 1996
CN Cellulose, [3-(2,5-dihydro-3,4-dimethyl-2,5-dioxo-1H-pyrrol-1-yl)propyl]carbamate (9CI) (CA INDEX NAME)
MF C10 H14 N2 O4 . x Unspecified
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 183149-95-3
CMF C10 H14 N2 O4



CM 2

CRN 9004-34-6
CMF Unspecified
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 125:315844

=> fil hcaplus uspatful
FILE 'HCAPLUS' ENTERED AT 14:57:49 ON 25 SEP 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2006 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPATFULL' ENTERED AT 14:57:49 ON 25 SEP 2006
CA INDEXING COPYRIGHT (C) 2006 AMERICAN CHEMICAL SOCIETY (ACS)

=> d bib abs hitstr retable tot 168

L68 ANSWER 1 OF 8 HCAPLUS COPYRIGHT 2006 ACS on STN
AN 2003:5795 HCAPLUS Full-text
DN 138:78455
TI Ointments containing polyalkylene glycol derivative-modified biologically active polypeptides
IN Yamasaki, Motoo; Suzawa, Toshiyuki; Murakami, Tatsuya; Sakurai, Noriko
PA Kyowa Hakko Kogyo Co., Ltd., Japan
SO PCT Int. Appl., 165 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003000278	A1	20030103	WO 2002-JP6227	20020621 <--
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,				
	CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,				
	GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS,				
	LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL,				
	PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA,				
	UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW:				
	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,				
	CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,				
	BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRAI	JP 2001-190330	A	20010622	<--	

AB Disclosed are ointments containing a chemical modified physiol. active polypeptide, wherein the chemical modified physiol. active polypeptide is exemplified by a physiol. active polypeptide chemical modified with at least one polyalkylene glycol, and the physiol. active polypeptide to be chemical modified is exemplified by superoxide dismutase, interferon- α , interferon- β , interferon- γ and granulocyte colony-stimulating factor. A polyethylene glycol cyclohexane derivative was prepared, and its N-hydroxysuccinimide ester was reacted with recombinant human interferon- β . The modified interferon- β showed excellent antiviral activity in FL cells. Also, an ointment containing modified interferon- β showed improved storage stability as compared with unmodified interferon- β -containing ointment.

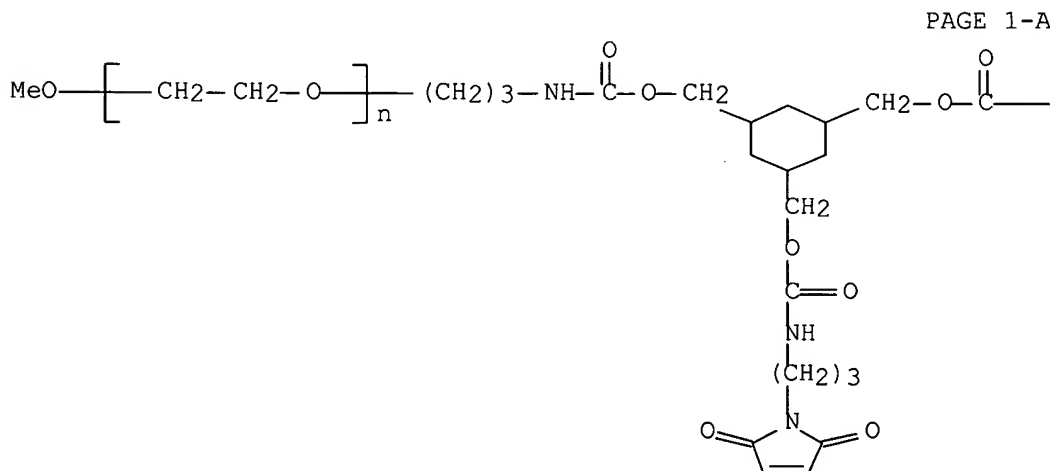
IT 479421-81-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

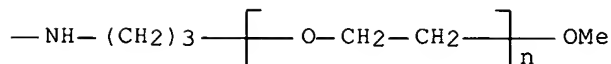
(preparation of polyalkylene glycol derivative-modified biol. active polypeptides for ointments)

RN 479421-81-3 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α, α' -[[[(1 α , 3 α , 5 α)-5-[[[[[3-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)propyl]amino]carbonyl]oxy]methyl]-1,3-cyclohexanediyl]bis(methyleneoxycarbonylimino-3,1-propanediyl)]bis[ω -methoxy- (9CI) (CA INDEX NAME)



PAGE 1-B



IT 445389-35-5DP, conjugates with polypeptides 445389-35-5P

479421-81-3DP, conjugates with polypeptides

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of polyalkylene glycol derivative-modified biol. active polypeptides for ointments)

RN 445389-35-5 HCAPLUS

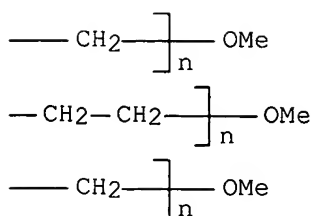
CN

$$\begin{array}{c} \text{O} \\ \parallel \\ \text{N} \\ \parallel \\ \text{O} \end{array} \quad \text{(CH}_2\text{)}_3\text{—NH—C(=O)—O—CH}_2\text{—C} \begin{array}{l} \text{CH}_2\text{—O—C(=O)—NH—(CH}_2\text{)}_3\text{—} \left[\text{O—CH}_2\text{—} \right. \\ \text{CH}_2\text{—O—C(=O)—NH—(CH}_2\text{)}_3\text{—} \left[\text{O—} \right. \\ \text{CH}_2\text{—O—C(=O)—NH—(CH}_2\text{)}_3\text{—} \left[\text{O—CH}_2\text{—} \right. \end{array}$$
$$\begin{array}{l} \text{---CH}_2\text{---} \left]_n \text{---OMe} \\ \text{---CH}_2\text{---CH}_2\text{---} \left]_n \text{---OMe} \\ \text{---CH}_2\text{---} \left]_n \text{---OMe} \end{array}$$

RN

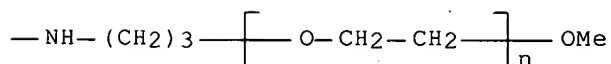
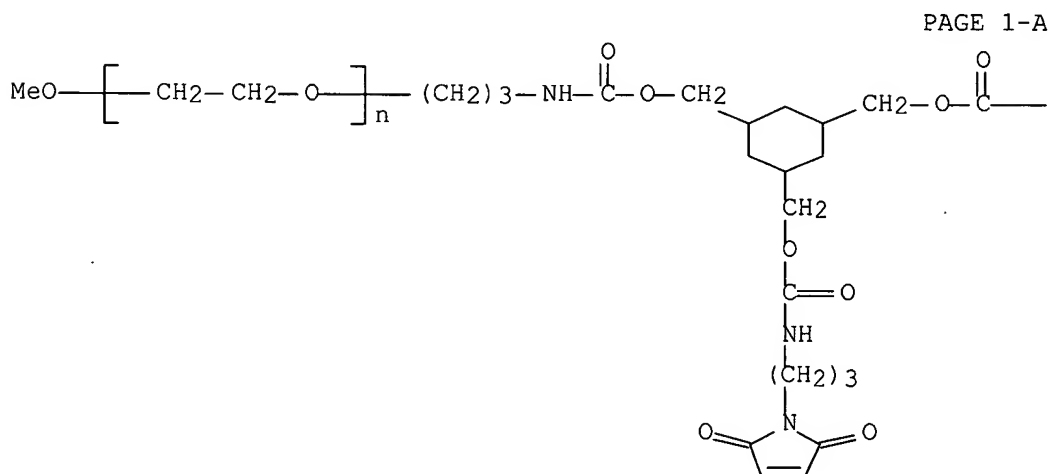
CN

$$\begin{array}{c} \text{O} \\ \parallel \\ \text{N} \\ \parallel \\ \text{O} \end{array} \quad \text{(CH}_2\text{)}_3\text{—NH—C(=O)—O—CH}_2\text{—C} \begin{array}{l} \text{CH}_2\text{—O—C(=O)—NH—(CH}_2\text{)}_3\text{—} \left[\text{O—CH}_2\text{—} \right. \\ \text{CH}_2\text{—O—C(=O)—NH—(CH}_2\text{)}_3\text{—} \left[\text{O—} \right. \\ \text{CH}_2\text{—O—C(=O)—NH—(CH}_2\text{)}_3\text{—} \left[\text{O—CH}_2\text{—} \right. \end{array}$$



RN 479421-81-3 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α, α' -[[(1 α , 3 α , 5 α)-5-[[[[[3-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)propyl]amino]carbonyl]oxy]methyl]-1,3-cyclohexanediyl]bis(methyleneoxycarbonylimino-3,1-propanediyl)]bis(ω -methoxy- (9CI) (CA INDEX NAME)



RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Asahi Chemical Industry	1995			JP 07-118165 A	HCAPLUS
Cetus Corp	1987			EP 229108 A1	HCAPLUS
Cetus Corp	1987			JP 62-503171 A	
F Hoffman-La Roche Ag	1994			JP 06-192300 A	HCAPLUS
F Hoffman-La Roche Ag	1994			EP 593868 A1	HCAPLUS
Johnson & Johnson Medic	2000			WO 00033893 A1	HCAPLUS
Johnson & Johnson Medic	2000			EP 1053029 A1	HCAPLUS

Johnson & Johnson Medic	2000			JP 2002531532 A	
Takara Shuzo Kabushiki	1989			JP 01-85934 A	
Takeda Chemical Industr	1987			EP 210761 A1	HCAPLUS
Takeda Chemical Industr	1987			JP 62-115280 A	HCAPLUS
Teijin Ltd	1989			JP 01-175999 A	HCAPLUS

L68 ANSWER 2 OF 8 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2002:594916 HCAPLUS Full-text

DN 137:159338

TI Branched polyalkylene glycols for modification of bioactive peptides

IN Yamasaki, Motoo; Suzawa, Toshiyuki; Murakami, Tatsuya; Sakurai, Noriko;
Yamashita, Kinya; Mukai, Mayumi; Kuwabara, Takashi

PA Kyowa Hakko Kogyo Co., Ltd., Japan

SO PCT Int. Appl., 82 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
	-----	---	-----	-----	-----	
PI	WO 2002060978	A1	20020808	WO 2002-JP709	20020130 <--	
	W:			AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM		
	RW:			GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG		
	CA 2436623	AA	20020808	CA 2002-2436623	20020130 <--	
	EP 1400550	A1	20040324	EP 2002-712277	20020130 <--	
	R:			AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR		
	US 2005063936	A1	20050324	US 2004-470680	20040112 <--	
PRAI	JP 2001-21616	A	20010130	<--		
	WO 2002-JP709	W	20020130	<--		

AB Disclosed are branched polyalkylene glycols which comprise at least three single-chain polyalkylene glycols bonded to each other and have a group reactive with an amino acid side chain, an N-terminal amino group or a C-terminal carboxyl group in a polypeptide or a group which can be converted into the reactive group as described above attached thereto; and physiol. active polypeptides modified by these branched polyalkylene glycols. A three single-chain branched polyethylene glycol derivative was prepared from tricine and Me(OC₂H₅)₃NCO. The obtained PEG derivative was esterified with N-hydroxysuccinimide, and reacted with recombinant human interferon- β (rhIFN- β) solution. The modified rhIFN- β showed improved antiviral activity in FL cells and blood IFN- β concentration in mice as compared with unmodified rhIFN- β .

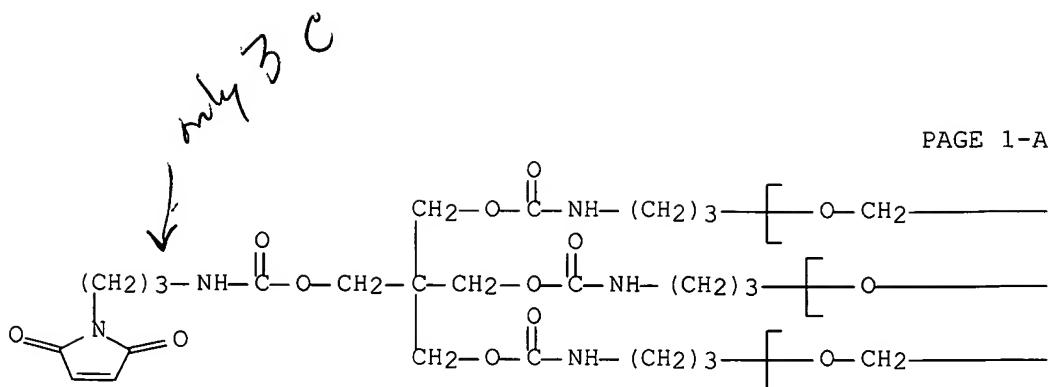
IT 445389-35-5DP, esters, reaction products with bioactive peptides

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

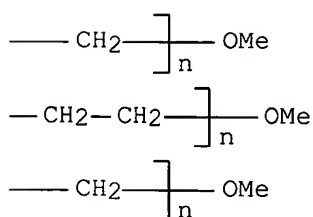
(branched polyalkylene glycols for modification of bioactive peptides)

RN 445389-35-5 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α -hydro- ω -methoxy-, ether with
2-[[[[[3-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)propyl]amino]carbonyl]oxy]methyl]-2-[[[[[3-(hydroxypropyl)amino]carbonyl]oxy]methyl]-1,3-propanediyl bis[(3-hydroxypropyl)carbamate] (3:1) (9CI) (CA INDEX NAME)



PAGE 1-B



RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Bracco S P A	1997			JP 11514396 A	
Bracco S P A	1997			US 5807971 A	HCAPLUS
Bracco S P A	1997			DE 860262 A	
Bracco S P A	1997			WO 9710281 A	HCAPLUS
Enzon Inc	1995			JP 09504299 A	
Enzon Inc	1995			US 5919455 A	HCAPLUS
Enzon Inc	1995			EP 788515 A	HCAPLUS
Enzon Inc	1995			WO 9511924 A	HCAPLUS
Japan Science And Techn	2001			JP 200164383 A	
Kyowa Hakko Kogyo Co Lt	2000			JP 2000191700 A	HCAPLUS
Nof Corp	1998			JP 10139877 A	HCAPLUS
Nof Corp	1998			JP 10139878 A	HCAPLUS
Nof Corp	1998			US 5767284 A	HCAPLUS
Nof Corp	1998			US 5872191 A	HCAPLUS
Nof Corp	1998			DE 69703780 T	
Nof Corp	1998			EP 839849 A	HCAPLUS
Nof Corp	1998			EP 839850 A	HCAPLUS
Shearwater Polymers Inc	1999			JP 2002506087 A	
Shearwater Polymers Inc	1999			US 6111048 A	HCAPLUS
Shearwater Polymers Inc	1999			EP 884341 A	HCAPLUS
Shearwater Polymers Inc	1999			WO 9945964 A	HCAPLUS
Supratek Pharma Inc	1999			JP 2002504519 A	
Supratek Pharma Inc	1999			US 5698529 A	HCAPLUS
Supratek Pharma Inc	1999			EP 619730 A	HCAPLUS
Supratek Pharma Inc	1999			WO 9943343 A	HCAPLUS

L68 ANSWER 3 OF 8 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2001:489516 HCAPLUS Full-text

DN 135:87194

TI Branched polyalkylene glycols
 IN Yamasaki, Motoo; Suzawa, Toshiyuki; Murakami, Tatsuya; Sakurai, Noriko;
 Yamashita, Kinya; Mukai, Mayumi; Kuwabara, Takashi; Ohta, So; Miki, Ichiro
 PA Kyowa Hakko Kogyo Co., Ltd., Japan
 SO PCT Int. Appl., 103 pp.
 CODEN: PIXXD2
 DT Patent
 LA Japanese
 FAN.CNT 1

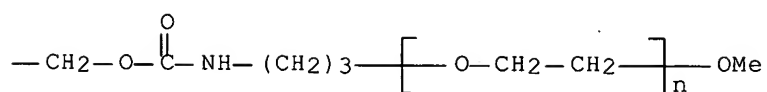
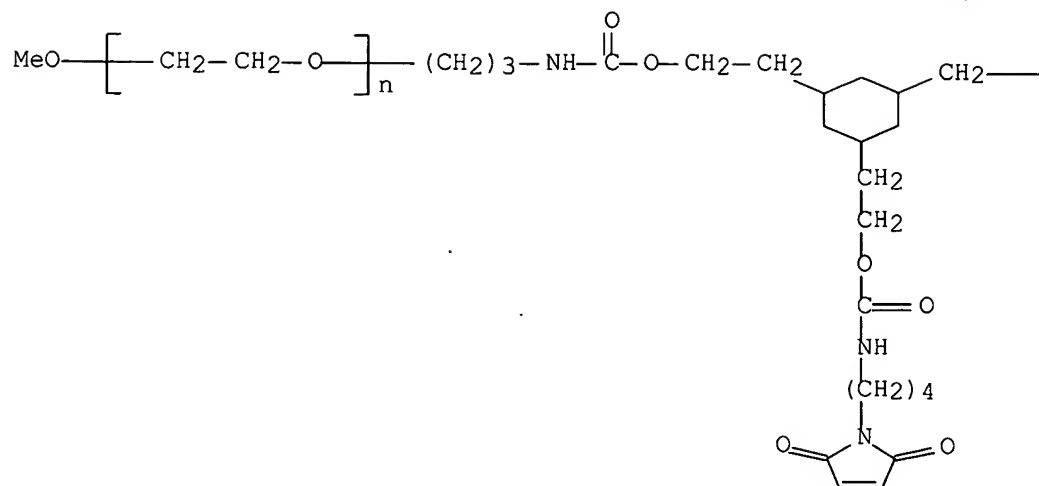
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001048052	A1	20010705	WO 2000-JP9159	20001222 <--
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	CA 2395254	AA	20010705	CA 2000-2395254	20001222 <--
	AU 2001022234	A5	20010709	AU 2001-22234	20001222 <--
	EP 1270642	A1	20030102	EP 2000-985846	20001222 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	US 2003219404	A1	20031127	US 2002-168956	20020624 <--
PRAI	JP 1999-366312	A	19991224	<--	
	WO 2000-JP9159	W	20001222	<--	

AB Branched polyalkylene glycols useful as reagents for chemical modifying physiol.
 active polypeptides wherein two single-chain polyalkylene glycols are attached to
 a group having a cyclic structure other than a planar structure and a group
 reactive with an amino acid side chain, the N-terminal amino group or the C-
 terminal carboxyl group in a polypeptide or a group which can be converted into
 such a reactive group is further attached thereto.

IT 348098-39-5DP, superoxide dismutase conjugate
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological
 study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
 BIOL (Biological study); PREP (Preparation); USES (Uses)
 (branched polyalkylene glycols for chemical modifying physiol. active
 polypeptides)

RN 348098-39-5 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α, α' -[[(1 α , 3 α , 5 α)-
 5-[2-[[[4-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-
 yl)butyl]amino]carbonyl]oxy]ethyl]-1,3-cyclohexanediyl]bis(2,1-
 ethanediyl)oxycarbonylimino-3,1-propanediyl]]bis[ω -methoxy- (9CI)
 (CA INDEX NAME)



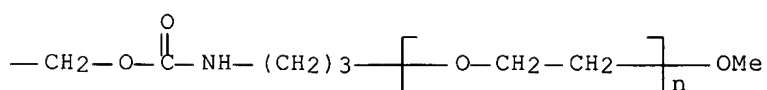
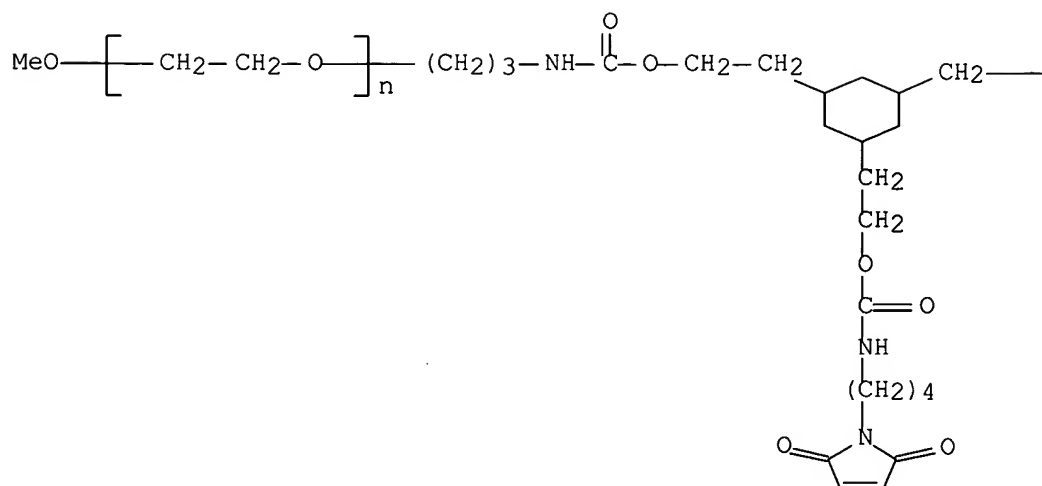
IT 348098-39-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(branched polyalkylene glycols for chemical modifying physiol. active polypeptides)

RN 348098-39-5 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α, α' -[[[(1 α , 3 α , 5 α)-5-[2-[[[[4-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)butyl]amino]carbonyl]oxy]ethyl]-1,3-cyclohexanediyl]bis(2,1-ethanediyl)oxycarbonylimino-3,1-propanediyl]]bis[ω -methoxy- (9CI) (CA INDEX NAME)



RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Bracco Spa				JP 11514396 A	
Bracco Spa				IT 1277596 B	
Bracco Spa				US 5807971 A	HCAPLUS
Bracco Spa				AU 717922 B	HCAPLUS
Bracco Spa				EP 850262 A	HCAPLUS
Bracco Spa				ZA 9607759 A	HCAPLUS
Bracco Spa				NO 9801092 A	HCAPLUS
Bracco Spa				KR 99044595 A	
Bracco Spa	1997			WO 9710281 A	HCAPLUS
Enzon Inc				WO 9701563 A	HCAPLUS
Enzon Inc	1997			JP 09504299 A	
Protein Delivery Inc				IL 109619 A	HCAPLUS
Protein Delivery Inc				CN 1120457 A	HCAPLUS
Protein Delivery Inc				US 5359030 A	HCAPLUS
Protein Delivery Inc				AU 694919 B	HCAPLUS
Protein Delivery Inc				EP 707596 A	HCAPLUS
Protein Delivery Inc				WO 9426778 A	HCAPLUS
Protein Delivery Inc	1996			JP 08510255 A	

L68 ANSWER 4 OF 8 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 1996:694179 HCAPLUS Full-text

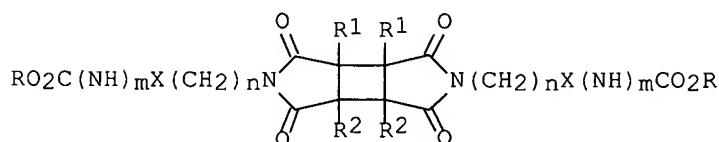
DN 125:315844

TI Photochemically cross-linked polysaccharide derivatives as supports for the chromatographic separation of enantiomers

IN Francotte, Eric

PA Ciba-Geigy A.-G., Switz.
 SO PCT Int. Appl., 36 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9627615	A1	19960912	WO 1996-EP773	19960224 <--
	W: AL, AM, AU, BB, BG, BR, CA, CN, CZ, EE, FI, GE, HU, IS, JP, KP, KR, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, TR, TT, UA, US, UZ, VN, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	CA 2212057	AA	19960912	CA 1996-2212057	19960224 <--
	AU 9649414	A1	19960923	AU 1996-49414	19960224 <--
	AU 708454	B2	19990805		
	EP 813546	A1	19971229	EP 1996-905796	19960224 <--
	EP 813546	B1	20020717		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE				
	CN 1177358	A	19980325	CN 1996-192364	19960224 <--
	JP 11509875	T2	19990831	JP 1996-526567	19960224 <--
	AT 220691	E	20020815	AT 1996-905796	19960224 <--
	PT 813546	T	20021129	PT 1996-905796	19960224 <--
	ES 2179935	T3	20030201	ES 1996-905796	19960224 <--
	FI 9703149	A	19970904	FI 1997-3149	19970729 <--
	FI 116840	B1	20060315		
	US 6011149	A	20000104	US 1997-894976	19970902 <--
	NO 9704092	A	19970905	NO 1997-4092	19970905 <--
PRAI	CH 1995-640	A	19950307	<--	
	WO 1996-EP773	W	19960224	<--	
OS	MARPAT 125:315844				
GI					



I

AB The present invention relates to photochem. cross-linked polysaccharide derivs. (I), wherein R is a polysaccharide radical in which the OH groups were esterified or OR' groups or converted into a carbamate (urethane), R1 and R2 are each independently lower alkyl or unsubstituted or substituted aryl, X is a direct bond or phenylene, m is 0 or 1, and n is 0 or an integer from 1 to 20, to processes for the preparation thereof and to the use thereof. (IA) and (IB) can be used as supports in the chromatog. separation of enantiomers.

IT **183149-96-4DP**, reaction products with 3,5-dimethylphenyl isocyanate and crosslinking **183149-96-4P**
 RL: PNU (Preparation, unclassified); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of photochem. cross-linked polysaccharide derivs. as supports for chromatog. separation of enantiomers)

RN 183149-96-4 HCAPLUS

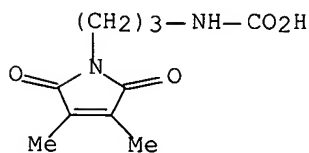
CN Cellulose, [3-(2,5-dihydro-3,4-dimethyl-2,5-dioxo-1H-pyrrol-1-

yl)propyl]carbamate (9CI) (CA INDEX NAME)

CM 1

CRN 183149-95-3

CMF C10 H14 N2 O4



CM 2

CRN 9004-34-6

CMF Unspecified

CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

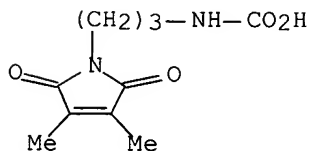
RN 183149-96-4 HCAPLUS

CN Cellulose, [3-(2,5-dihydro-3,4-dimethyl-2,5-dioxo-1H-pyrrol-1-yl)propyl]carbamate (9CI) (CA INDEX NAME)

CM 1

CRN 183149-95-3

CMF C10 H14 N2 O4



CM 2

CRN 9004-34-6

CMF Unspecified

CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L68 ANSWER 5 OF 8 USPATFULL on STN

DUPLICATE 1

AN 2005:74642 USPATFULL Full-text

TI Branched polyalkylene glycols

IN Yamasaki, Motoo, Tokyo, JAPAN

Suzawa, Toshiyuki, Kanagawa, JAPAN

Murakami, Tatsuya, Tokyo, JAPAN

Sakurai, Noriko, Tokyo, JAPAN

Yamashita, Kinya, Shizuoka, JAPAN

Makai, Mayumi, Shizuoka, JAPAN
 Kuwabara, Takashi, Shizuoka, JAPAN
 PI US 2005063936 A1 20050324
 AI US 2004-470680 A1 20040112 (10)
 WO 2002-JP709 20020130
 PRAI JP 2001-21616 20010130
 DT Utility
 FS APPLICATION
 LREP Lawrence S Perry, Fitzpatrick Cella Harper & Scinto, 30 Rockefeller
 Plaza, New York, NY, 10112
 CLMN Number of Claims: 11
 ECL Exemplary Claim: 1
 DRWN 2 Drawing Page(s)
 LN.CNT 2699

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides a branched polyalkylene glycol wherein three or more single-chain polyalkylene glycols and a group having reactivity with an amino acid side chain, the N-terminal amino group or the C-terminal carboxyl group in a polypeptide or a group convertible into the group having reactivity are bound; and a physiologically active polypeptide modified with the branched polyalkylene glycol.

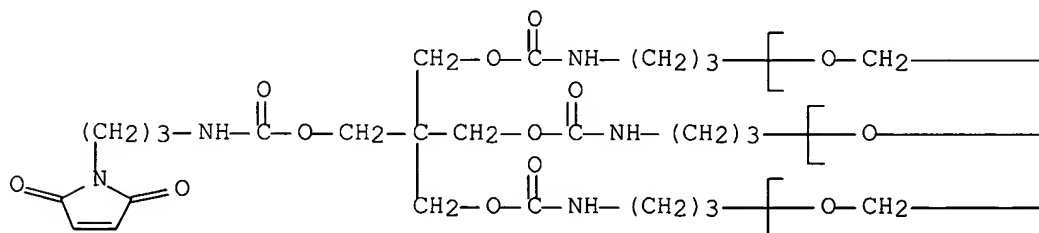
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 445389-35-5DP, esters, reaction products with bioactive peptides
 (branched polyalkylene glycols for modification of bioactive peptides)

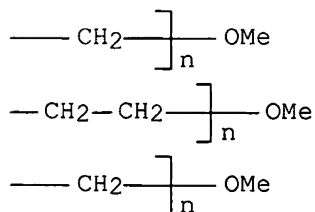
RN 445389-35-5 USPATFULL

CN Poly(oxy-1,2-ethanediyl), α -hydro- ω -methoxy-, ether with
 2-[[[[[3-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)propyl]amino]carbonyl]oxy]methyl]-2-[[[[[3-hydroxypropyl]amino]carbonyl]oxy]methyl]-1,3-propanediyl
 bis[(3-hydroxypropyl)carbamate] (3:1) (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



L68 ANSWER 6 OF 8 USPATFULL on STN
AN 2003:311810 USPATFULL Full-text

DUPLICATE 2

TI Branched polyalkylene glycols
IN Yamasaki, Motoo, Tokyo, JAPAN
Suzawa, Toshiyuki, Tokyo, JAPAN
Murakami, Tatsuya, Tokyo, JAPAN
Sakurai, Noriko, Tokyo, JAPAN
Yamashita, Kinya, Shizuoka, JAPAN
Mukai, Mayumi, Shizuoka, JAPAN
Kuwabara, Takashi, Shizuoka, JAPAN
Ohta, So, Tokyo, JAPAN
Miki, Ichiro, Shizuoka, JAPAN

PI US 2003219404 A1 20031127
AI US 2002-168956 A1 20020624 (10)
WO 2000-JP9159 20001222

PRAI JP 1999-366312 19991224

DT Utility

FS APPLICATION

LREP FITZPATRICK CELLA HARPER & SCINTO, 30 ROCKEFELLER PLAZA, NEW YORK, NY,
10112

CLMN Number of Claims: 16

ECL Exemplary Claim: 1

DRWN 2 Drawing Page(s)

LN.CNT 3707

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

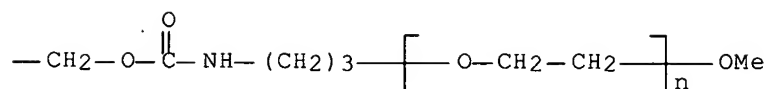
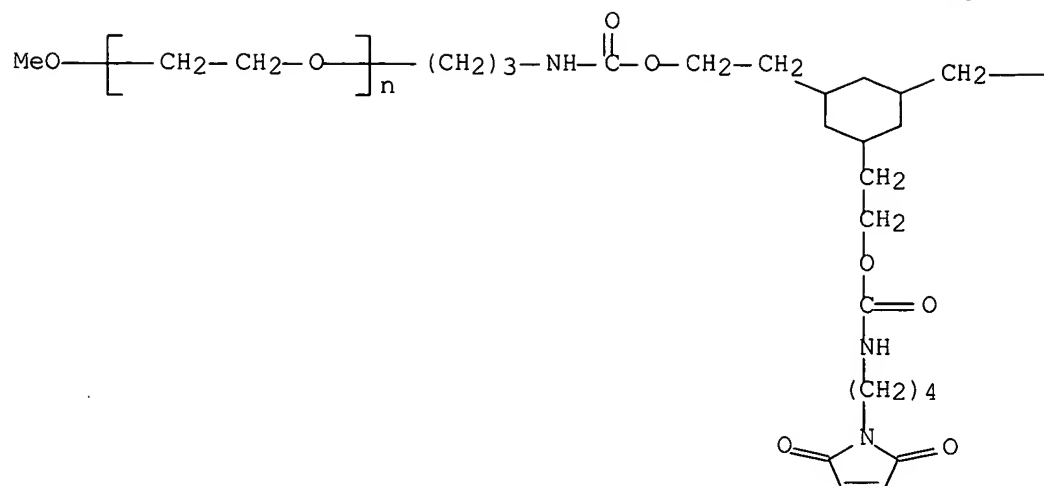
AB The present invention provides branched polyalkylene glycols useful as a chemically modifying agent for physiologically active polypeptides, wherein two single-chain polyalkylene glycols are linked to a group having a cyclic structure other than a plane structure, and wherein a group having reactivity with an amino acid side chain, an N-terminal amino group or a C-terminal carboxyl group in a polypeptide or a group convertible into the group having reactivity is linked to the group having a structure other than a plane structure.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 348098-39-5DP, superoxide dismutase conjugate
(branched polyalkylene glycols for chemical modifying physiol. active polypeptides)

RN 348098-39-5 USPATFULL

CN Poly(oxy-1,2-ethanediyl), α, α' -[[(1 α , 3 α , 5 α)-5-[2-[[[4-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)butyl]amino]carbonyl]oxy]ethyl]-1,3-cyclohexanediyl]bis(2,1-ethanediyl)oxycarbonylimino-3,1-propanediyl]]bis[ω -methoxy- (9CI)
(CA INDEX NAME)

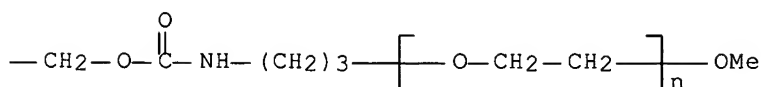
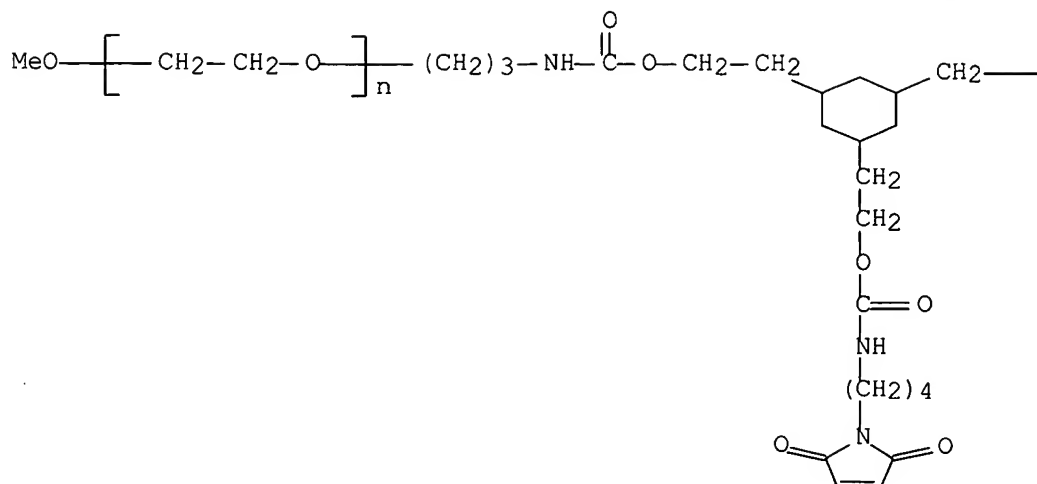


IT 348098-39-5P

(branched polyalkylene glycols for chemical modifying physiol. active polypeptides)

RN 348098-39-5 USPATFULL

CN Poly(oxy-1,2-ethanediyl), α, α' -[[(1 α , 3 α , 5 α)-5-[2-[[[4-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)butyl]amino]carbonyl]oxy]ethyl]-1,3-cyclohexanediyl]bis(2,1-ethanediyl)oxycarbonylimino-3,1-propanediyl]]bis[ω -methoxy- (9CI)
(CA INDEX NAME)



L68 ANSWER 7 OF 8 USPATFULL on STN

DUPLICATE 3

AN 2000:1992 USPATFULL Full-text

TI Photochemically cross-linked polysaccharide derivatives as supports for the chromatographic separation of enantiomers

IN Francotte, Eric, Nuglar, Switzerland

PA Novartis AG, Basel, Switzerland (non-U.S. corporation)

PI US 6011149 20000104

WO 9627615 19960912

AI US 1997-894976 19970902 (8)

WO 1996-EP773 19960224

19970902 PCT 371 date

19970902 PCT 102(e) date

PRAI CH 1995-640 19950307

DT Utility

FS Granted

EXNAM Primary Examiner: Kunz, Gary L.

LREP Lopez, Gabriel, Kalinchak, Stephen G.

CLMN Number of Claims: 21

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 1064

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to photochemically cross-linked derivatives of general formulae (IA) and (IB), wherein R is a polysaccharide radical in which the OH groups have been esterified as OR' groups or converted into a carbamate (urethane), R.sub.1, and R.sub.2 are each independently lower alkyl or unsubstituted or substituted aryl, X is a direct bond or phenylene, m is 0 or 1, and n is 0 or an integer from 1 to 20, to processes from the preparation

thereof and to the use thereof. The compounds of general formula (IA) and (IB) can be used as supports in the chromatographic separation of enantiomers.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 183149-96-4DP, reaction products with 3,5-dimethylphenyl

isocyanate and crosslinking 183149-96-4P

(preparation of photochem. cross-linked polysaccharide derivs. as supports for chromatog. separation of enantiomers)

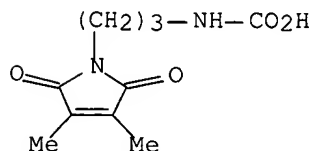
RN 183149-96-4 USPATFULL

CN Cellulose, [3-(2,5-dihydro-3,4-dimethyl-2,5-dioxo-1H-pyrrol-1-yl)propyl]carbamate (9CI) (CA INDEX NAME)

CM 1

CRN 183149-95-3

CMF C10 H14 N2 O4



CM 2

CRN 9004-34-6

CMF Unspecified

CCI PMS, MAN

STRUCTURE DIAGRAM IS NOT AVAILABLE

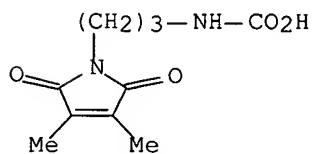
RN 183149-96-4 USPATFULL

CN Cellulose, [3-(2,5-dihydro-3,4-dimethyl-2,5-dioxo-1H-pyrrol-1-yl)propyl]carbamate (9CI) (CA INDEX NAME)

CM 1

CRN 183149-95-3

CMF C10 H14 N2 O4



CM 2

CRN 9004-34-6

CMF Unspecified

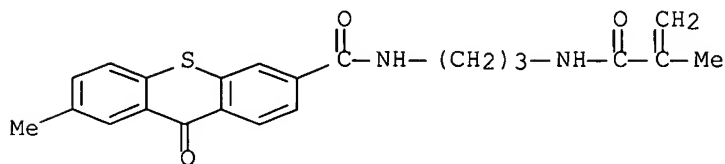
CCI PMS, MAN

STRUCTURE DIAGRAM IS NOT AVAILABLE

L68 ANSWER 8 OF 8 USPATFULL on STN
 AN 2005:292596 USPATFULL Full-text
 TI Coatings for medical articles including natural biodegradable polysaccharides
 IN Chudzik, Stephen J., St. Paul, MN, UNITED STATES
 Chinn, Joseph A., Shakopee, MN, UNITED STATES
 Swan, Dale G., St. Louis Park, MN, UNITED STATES
 Burkstrand, Michael J., Richfield, MN, UNITED STATES
 PA SurModics, Inc. (U.S. corporation)
 PI US 2005255142 A1 20051117
 AI US 2005-127351 A1 20050512 (11)
 PRAI US 2004-570334P 20040512 (60)
 US 2004-603707P 20040823 (60)
 US 2004-613662P 20040928 (60)
 DT Utility
 FS APPLICATION
 LREP KAGAN BINDER, PLLC, SUITE 200, MAPLE ISLAND BUILDING, 221 MAIN STREET
 NORTH, STILLWATER, MN, 55082, US
 CLMN Number of Claims: 21
 ECL Exemplary Claim: 1
 DRWN No Drawings
 LN.CNT 2724
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.
 AB Biodegradable coatings that include natural biodegradable polysaccharides are described. The coating is formed from a plurality of natural biodegradable polysaccharides having pendent coupling groups.

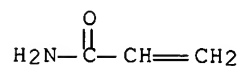
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT **869587-21-3P**
 (preparation of biodegradable polysaccharide sealant coatings for implantable medical devices)
 RN 869587-21-3 USPATFULL
 CN Maltodextrin, [5-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)pentyl]carbamate, polymer with 7-methyl-N-[3-[(2-methyl-1-oxo-2-propenyl)amino]propyl]-9-oxo-9H-thioxanthene-3-carboxamide and 2-propenamide (9CI) (CA INDEX NAME)
 CM 1
 CRN 244202-41-3
 CMF C22 H22 N2 O3 S



CM 2

CRN 79-06-1
CMF C3 H5 N O

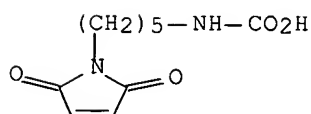


CM 3

CRN 869587-19-9
CMF C10 H14 N2 O4 . x Unspecified
CDES 8:GD,ESTER

CM 4

CRN 869587-18-8
CMF C10 H14 N2 O4



CM 5

CRN 9050-36-6
CMF Unspecified
CCI PMS, MAN

STRUCTURE DIAGRAM IS NOT AVAILABLE

IT 869587-19-9P

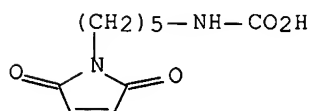
(preparation of biodegradable polysaccharide sealant coatings for implantable medical devices)

RN 869587-19-9 USPATFULL

CN Maltodextrin, [5-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)pentyl]carbamate
(9CI) (CA INDEX NAME)

CM 1

CRN 869587-18-8
CMF C10 H14 N2 O4



CM 2

CRN 9050-36-6
CMF Unspecified
CCI PMS, MAN

STRUCTURE DIAGRAM IS NOT AVAILABLE

=> => d his

(FILE 'HOME' ENTERED AT 13:44:12 ON 25 SEP 2006)
SET COST OFF

FILE 'HCAPLUS' ENTERED AT 13:44:33 ON 25 SEP 2006

L1 2 S (US20060009590 OR US20040204548)/PN OR (US2005-091024# OR US2
E KOZLOWSKI/AU
L2 162 S E4-E7,E19,E21,E22
E GROSS/AU
L3 9 S E3
E GROSS R/AU
L4 481 S E3,E11
L5 5 S E51,E52
E MCMANUS/AU
E MCMANUS S/AU
L6 138 S E3,E5-E9
E MC MANUS/AU
E NEKTAR/PA,CS
L7 85 S E3-E34
L8 2 S L1 AND L2-L7
SEL RN

FILE 'REGISTRY' ENTERED AT 14:01:50 ON 25 SEP 2006

L9 55 S E1-E55
L10 29 S L9 AND NC4/ES
L11 STR
L12 SCR 2043
L13 50 S L11 AND L12 SAM
L14 STR L11
L15 STR L11
L16 50 S L15 AND L12
L17 16423 S L15 AND L12 FUL
SAV TEMP L17 RAB751/A
L18 50 S L11 SAM SUB=L17
L19 1066 S L11 FUL SUB=L17
SAV TEMP L19 RAB751A/A
L20 476 S L19 AND (C2H4O OR C3H6O OR C4H8O OR C5H10O)
L21 114 S L20 AND S/ELS
L22 STR L11
L23 4 S L22 SAM SUB=L19
L24 STR L22
L25 43 S L24 SAM SUB=L19
L26 STR L22
L27 23 S L26 SAM SUB=L19
L28 420 S L26 FUL SUB=L19
SAV L28 TEMP RAB751B/A
L29 STR L26
L30 4 S L29 SAM SUB=L28
L31 49 S L29 FUL SUB=L28
SAV TEMP L31 RAB751C/A
L32 31 S L22 FUL SUB=L19

```

                SAV TEMP L32 RAB751D/A
L33          0 S L32 AND L31
L34          17 S L32 AND L28
L35          14 S L32 NOT L34
L36          3 S L35 AND 1/NC
L37          2 S L36 NOT 249621-30-5
L38          222 S L28 AND L20
L39          62 S L21 AND L38
L40          1 S L39 AND "(C2H4O)NC18H32N2O8S"/MF
L41          160 S L38 NOT L39
L42          20 S L10 AND L19
L43          4 S L42 AND L28
L44          1 S L42 AND L31
L45          0 S L42 AND L32
L46          19 S L42-L44 NOT L40
L47          1 S L46 AND "(C2H4O)NC16H26N2O7"/MF
L48          10 S L46 AND 46.150.1/RID
                SEL RN 9 10
L49          8 S L48 NOT E56-E57
L50          10 S L40,L47,L49
L51          10 S L42 NOT L50
                SAV TEMP L51 RAB751E/A

FILE 'HCAOLD' ENTERED AT 14:42:38 ON 25 SEP 2006

FILE 'HCAPLUS' ENTERED AT 14:42:41 ON 25 SEP 2006

FILE 'USPATFULL' ENTERED AT 14:46:12 ON 25 SEP 2006

FILE 'REGISTRY' ENTERED AT 14:46:51 ON 25 SEP 2006

FILE 'HCAOLD' ENTERED AT 14:47:31 ON 25 SEP 2006
L52          0 S L50

FILE 'HCAPLUS' ENTERED AT 14:47:31 ON 25 SEP 2006
L53          2 S L50
L54          2 S L53 AND L1-L8

FILE 'USPATFULL' ENTERED AT 14:48:04 ON 25 SEP 2006
L55          2 S L50

FILE 'REGISTRY' ENTERED AT 14:48:12 ON 25 SEP 2006

FILE 'HCAPLUS' ENTERED AT 14:48:51 ON 25 SEP 2006

FILE 'USPATFULL' ENTERED AT 14:49:09 ON 25 SEP 2006

FILE 'REGISTRY' ENTERED AT 14:49:54 ON 25 SEP 2006
L56          31 S L32 NOT L50
L57          5 S L56 AND (C2H4 OR C10H14N2O4 OR C18H36)
L58          13 S L56 AND C2H4O NOT L57
                SEL RN 1 9 10 12
L59          4 S E58-E61
L60          9 S L57,L59
L61          48 S L31 NOT L56,L50

FILE 'HCAOLD' ENTERED AT 14:55:18 ON 25 SEP 2006
L62          0 S L60

FILE 'HCAPLUS' ENTERED AT 14:55:21 ON 25 SEP 2006

```

L63 7 S L60
L64 0 S L63 AND L1-L8
L65 4 S L63 AND (PY<=2002 OR PRY<=2002 OR AY<=2002)

FILE 'USPATFULL' ENTERED AT 14:55:58 ON 25 SEP 2006

L66 4 S L63
L67 3 S L66 AND (PY<=2002 OR PRY<=2002 OR AY<=2002)

FILE 'HCAPLUS, USPATFULL' ENTERED AT 14:56:26 ON 25 SEP 2006

L68 8 DUP REM L65 L66 L67 (3 DUPLICATES REMOVED)

FILE 'REGISTRY' ENTERED AT 14:56:33 ON 25 SEP 2006

FILE 'HCAPLUS, USPATFULL' ENTERED AT 14:57:49 ON 25 SEP 2006

=>